

Antenna Gain Measurement Report

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Release Control Record

Issue No.	Description	Date Issued
ORBCKS-WTW-P2502007	Original release	2025.5.xx

1 EUT Antenna System Description

1.1 Antenna Information

Frequency range	Brand	Model	Antenna Type	Connector Type	Antenna NO.	RF Chain NO.
2.4~2.4835GHz	ARC	120800157500J	Dipole	MHF1	D_1	0
5.15~5.25GHz			Dipole	MHF1		
5.25~5.35GHz			Dipole	MHF1		
5.47~5.725GHz			Dipole	MHF1		
5.725~5.85GHz			Dipole	MHF1		
2.4~2.4835GHz	ARC	120800157600J	Dipole	MHF1	D_2	1
5.15~5.25GHz			Dipole	MHF1		
5.25~5.35GHz			Dipole	MHF1		
5.47~5.725GHz			Dipole	MHF1		
5.725~5.85GHz			Dipole	MHF1		
2.4~2.4835GHz	ARC	120800157700J	Dipole	MHF1	D_3	2
5.15~5.25GHz			Dipole	MHF1		
5.25~5.35GHz			Dipole	MHF1		
5.47~5.725GHz			Dipole	MHF1		
5.725~5.85GHz			Dipole	MHF1		
2.4~2.4835GHz	ARC	120800157800J	Dipole	MHF1	D_4	3
5.15~5.25GHz			Dipole	MHF1		
5.25~5.35GHz			Dipole	MHF1		
5.47~5.725GHz			Dipole	MHF1		
5.725~5.85GHz			Dipole	MHF1		
5.15~5.25GHz	ARC	120800158300J	Dipole	MHF1	ZWDFS Rx	0
5.25~5.35GHz			Dipole	MHF1		
5.47~5.725GHz			Dipole	MHF1		
5.725~5.85GHz			Dipole	MHF1		
5.925GHz~6.425GHz	ARC	120800158000J	Dipole	MHF1	6G1	0
6.425GHz~6.525GHz			Dipole	MHF1		
6.525GHz~6.875GHz			Dipole	MHF1		
6.875Hz~7.125GHz			Dipole	MHF1		
5.925GHz~6.425GHz	ARC	120800157900J	Dipole	MHF1	6G2	1
6.425GHz~6.525GHz			Dipole	MHF1		
6.525GHz~6.875Hz			Dipole	MHF1		
6.875Hz~7.125GHz			Dipole	MHF1		
5.925GHz~6.425GHz	ARC	120800158100J	Dipole	MHF1	6G3	2
6.425GHz~6.525GHz			Dipole	MHF1		
6.525GHz~6.875GHz			Dipole	MHF1		
6.875Hz~7.125GHz			Dipole	MHF1		
5.925GHz~6.425GHz	ARC	120800158200J	Dipole	MHF1	6G4	3
6.425GHz~6.525GHz			Dipole	MHF1		
6.525GHz~6.875GHz			Dipole	MHF1		
6.875Hz~7.125GHz			Dipole	MHF1		
5.925GHz~6.425GHz	ARC	120800158400J	Dipole	MHF1	6G5 Rx	0
6.425GHz~6.525GHz			Dipole	MHF1		
6.525GHz~6.875GHz			Dipole	MHF1		
6.875Hz~7.125GHz			Dipole	MHF1		

1.2 Antenna Location (Configuration and RF Chains)

Please refer to Test Setup and EUT antenna port photo. (Appendix B.)

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..

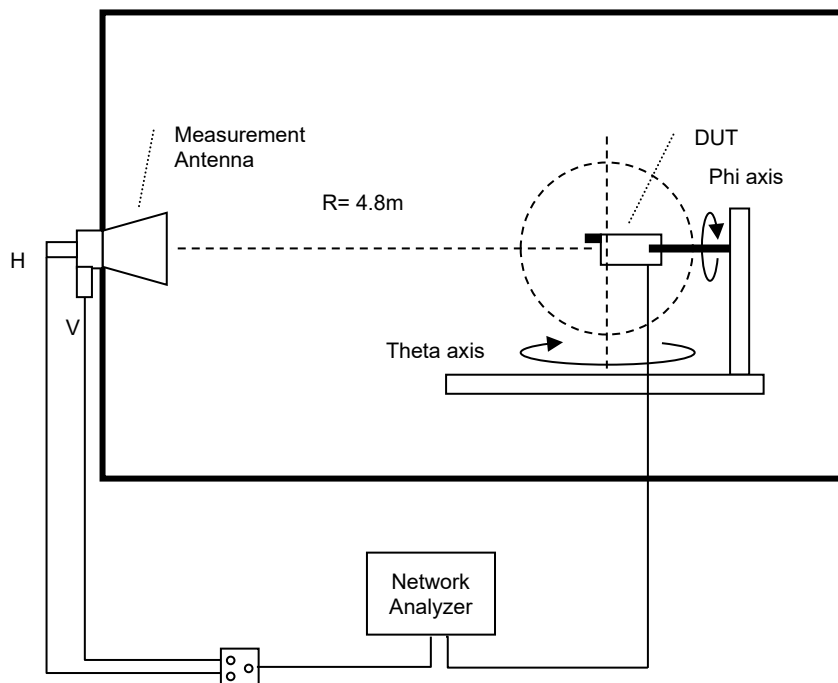


Figure 1. Antenna Pattern Test System.

2.4 Block diagram of calibration

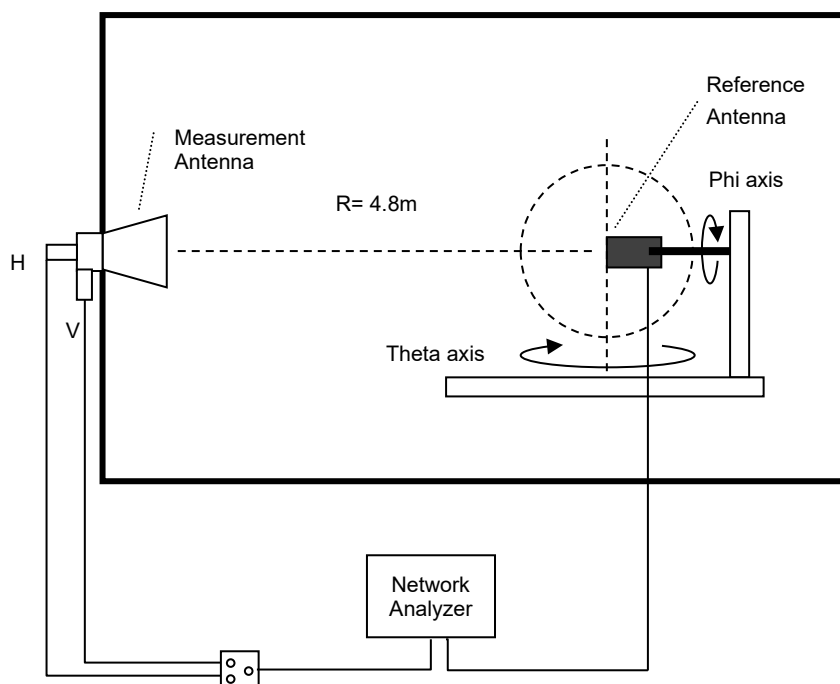
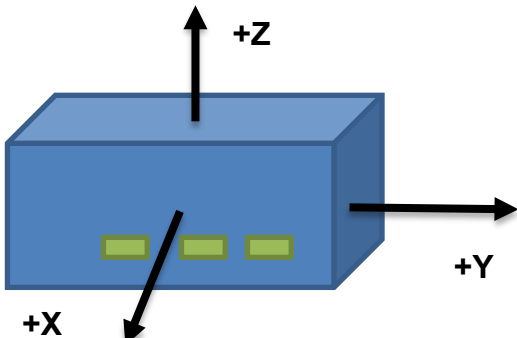


Figure 2. Calibration configuration.

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

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	4TX	4RX
802.11g	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
VHT20	4TX	4RX
VHT40	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11be (EHT20)	4TX	4RX
802.11be (EHT40)	4TX	4RX

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ac (VHT160)	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11ax (HE160)	4TX	4RX
802.11be (EHT20)	4TX	4RX
802.11be (EHT40)	4TX	4RX
802.11be (EHT80)	4TX	4RX
802.11be (EHT160)	4TX	4RX

6 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	4TX	5RX
802.11ax (HE20)	4TX	5RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11ax (HE160)	4TX	4RX
802.11be (EHT20)	4TX	4RX
802.11be (EHT40)	4TX	4RX
802.11be (EHT80)	4TX	4RX
802.11be (EHT160)	4TX	4RX
802.11be (EHT320)	4TX	4RX

2.7 Test Setup Diagram for EUT

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

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	2024/5/30	2025/5/29	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
2. (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.
3. Repeat step 1 and measures all of antenna gain for each Phi and Theta polarization for all antenna angles.
4. 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.
5. 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 (MHz)	2450	5200	5300	5600	5785	-	-	-	-
Ant. 1 (Blue) (dBi)	1.86	3.11	2.92	4.30	4.33	-	-	-	-
Polarization	Phi	Theta	Theta	Theta	Theta	-	-	-	-
Axis: Theta(°)	45	150	180	180	180	-	-	-	-
Axis: Phi(°)	90	210	180	180	180	-	-	-	-
Ant. 2 (Orange) (dBi)	5.16	5.61	5.36	5.42	4.73	-	-	-	-
Polarization	Theta	Theta	Theta	Theta	Theta	-	-	-	-
Axis: Theta(°)	90	90	90	90	105	-	-	-	-
Axis: Phi(°)	345	240	255	255	240	-	-	-	-
Ant. 3 (dBi)	2.61	5.87	5.23	5.69	5.09	-	-	-	-
Polarization	Theta	Theta	Theta	Theta	Theta	-	-	-	-
Axis: Theta(°)	105	75	90	90	90	-	-	-	-
Axis: Phi(°)	300	300	300	285	285	-	-	-	-
Ant. 4 (dBi)	3.88	4.28	3.85	5.18	5.09	-	-	-	-
Polarization	Theta	Theta	Phi	Phi	Theta	-	-	-	-
Axis: Theta(°)	150	150	165	165	180	-	-	-	-
Axis: Phi(°)	345	195	300	285	0	-	-	-	-

Maximum Directional Gain (Maximum Direction Angle and Value):

Frequency Band (MHz)	2450	5200	5300	5600	5785	-	-	-	-
Ant. 1 (dBi)	-1.4	0.09	-8.01	1.85	4.33	-	-	-	-
Ant. 2 (dBi)	-5.57	5.07	3.66	-1.65	-6.5	-	-	-	-
Ant. 3 (dBi)	0.4	-1.69	2.46	-6.02	-8.92	-	-	-	-
Ant. 4 (dBi)	3.88	-11.6	-4.45	3.39	4.91	-	-	-	-
Polarization	Theta	Theta	Theta	Theta	Theta	-	-	-	-
Axis: Theta(°)	150	90	105	150	180	-	-	-	-
Axis: Phi(°)	345	255	90	195	180	-	-	-	-
Correlated Signals DG Calculation $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$									
DG (dBi) [1SS]	5.99	5.78	5.68	6.11	6.52	-	-	-	-

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.
- ◆ For single antenna peak gain, the values are used only to calculate the directional gain reference. For the worst-case antenna gain values as noted in the test report, please refer to the antenna datasheet.
- ◆ The NSS1, NSS2, NSS3, and NSS4 of spatial streams are supported, with NSS1 being evaluated in the test report as the worst-case.

APPENDIX A – Detail Test Data Information

A.1 Radiated Directional Gain

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°)	-0.95	-1.59	-3.05	-5.4	-9.56	-19.1	-18.24	-9.61	-5.58	-3.09	-1.79	-1.33	-1.6	-2.15	-3.29	-5.52	-9.57	-18.56	-20.04	-10.77	-6.5	-3.72	-1.91	-1.11	-0.95
θ (15°)	-2.27	-2.22	-2.5	-3.08	-4.44	-7.59	-14.49	-13.69	-6.52	-2.8	-1.16	-1.16	-2.38	-4.11	-5.07	-5.48	-6.74	-10.17	-17.13	-16.34	-10.93	-7.3	-4.74	-3.23	-2.27
θ (30°)	-3.99	-4.18	-4.56	-4.49	-4.84	-6.93	-11.3	-15.86	-12.71	-7.7	-3.92	-2.44	-3.4	-4.27	-2.58	-2.28	-4.99	-13.41	-16.92	-7.57	-4.48	-3.43	-3.53	-3.97	-3.99
θ (45°)	-3.06	-4.54	-5.96	-6.47	-8.09	-12.88	-17.45	-9.93	-7.06	-8.79	-8.61	-3.86	-4.01	-5.2	-3.28	-4.37	-9.46	-14.4	-10.57	-7.52	-5.21	-3.49	-2.37	-2.22	-3.06
θ (60°)	-2.79	-4.49	-4.54	-3.79	-5.41	-9.02	-11.98	-9.19	-5.5	-5.31	-14.03	-9.45	-6.5	-15.48	-5.63	-5.72	-14.42	-15.61	-9.98	-8.96	-8.68	-9.92	-8.4	-3.54	-2.79
θ (75°)	-1.96	-2.82	-4.04	-3.4	-4.62	-7.24	-9.84	-13.45	-15.48	-13.02	-17.95	-16.26	-20.32	-9.36	-5	-8.12	-20.53	-19.53	-14.15	-9.31	-5.61	-5.91	-15.53	-8.58	-1.96
θ (90°)	-8.9	-5.5	-4.5	-3.83	-3.9	-5.98	-9.97	-13.71	-13.86	-15.47	-10.29	-10.1	-30.79	-13.36	-18.74	-11.92	-8.94	-8.62	-9.84	-11.34	-9.02	-5.92	-5.74	-11.35	-8.9
θ (105°)	-8.23	-7.49	-10.16	-33.81	-10.48	-7.72	-8.35	-10.27	-11.23	-10.85	-9.32	-9.46	-9.85	-8.27	-8.98	-13.63	-11.83	-6.89	-6.15	-7.32	-9.81	-14.51	-14.82	-9.79	-8.23
θ (120°)	-5.72	-2.72	[-0.69]	-1.48	-7.06	-24.54	-9.08	-6.07	-6.03	-8.55	-7.1	-3.88	-4.18	-3.44	-2.66	-5.85	-13.84	-12.9	-12.89	-14.97	-13.72	-9.93	-10.31	-32.8	-5.72
θ (135°)	-20.69	-6.9	-3.85	-4.28	-8.72	-33.7	-10.08	-5.91	-4.46	-3.09	-2.11	-2.62	-3.63	-4.63	-7.38	-14.07	-20.51	-14.33	-10.37	-8.59	-9.37	-9.68	-7.46	-8.27	-20.69
θ (150°)	-1.02	-3.26	-8.19	-15.19	-29.94	-22.21	-14.82	-11.12	-9.43	-7.74	-4.46	-1.73	-0.99	-2.7	-6.67	-10.46	-13.95	-13.79	-7.68	-4.7	-4.73	-7.05	-5.05	-1.4	-1.02
θ (165°)	-8.56	-10.26	-9.83	-9.49	-11.37	-15.29	-12.24	-7.1	-4.09	-2.71	-2.78	-4.39	-8.43	-17.03	-11.69	-7.92	-8.51	-13.71	-16.08	-8.24	-5.07	-4.34	-4.96	-6.1	-8.56
θ (180°)	-7.69	-6.94	-6.53	-6.79	-7.85	-10.18	-14.81	-21.21	-15.75	-10.69	-7.72	-6.2	-5.69	-5.94	-6.59	-7.52	-8.95	-11.31	-14.48	-16.98	-16.33	-14.01	-11.73	-9.72	-7.69
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°)	-11.98	-7.46	-4.44	-2.64	-1.47	-1.03	-1.19	-2.08	-3.94	-7.06	-12.38	-28.62	-15.01	-8.29	-5.07	-3.19	-2.21	-1.82	-1.82	-2.21	-3.32	-5.45	-9.75	-20.81	-11.98
θ (15°)	-14.24	-9.32	-6.11	-3.9	-2.09	-0.64	0.1	-0.03	-1.38	-4.45	-11.06	-22.54	-9.03	-5.53	-4.23	-3.31	-2.13	-1.14	-0.85	-1.34	-2.55	-4.52	-7.59	-11.49	-14.24
θ (30°)	-11.05	-10.27	-9.03	-10.04	-7.02	-3.43	-1.79	-1.68	-2.49	-3.98	-8.24	-32.6	-7.27	-4.27	-4.73	-3.49	-0.93	0.36	0.48	-0.12	-1.16	-2.1	-3.1	-5.59	-11.05
θ (45°)	-5.65	-7.15	-9.26	-7.28	-1.48	1.17	[1.86]	1.06	-1.28	-4.59	-10.25	-15.03	-4.97	-4.11	-5.23	-1.06	1.28	1.84	1.73	1.07	-0.76	-3.62	-4.04	-3.53	-5.65
θ (60°)	-6.2	-8.3	-9.11	-7.08	-2.29	-0.28	0.04	-0.61	-2.5	-6.7	-15.2	-15.66	-4.74	-4.29	-11.32	-1.74	0.77	0.55	0.31	0.73	0.87	-0.39	-2.9	-3.59	-6.2
θ (75°)	-6.98	-8.43	-7.56	-2.61	0.37	1.09	0.93	0.73	0.12	-2.62	-10.05	-10.7	-6.04	-13.67	-5.89	-1.19	-2	-4.56	-5.21	-5.11	-5.76	-6.69	-5.15	-3.4	-6.98
θ (90°)	-5.34	-5.33	-7.8	-4.54	0.1	1.45	1.29	0.87	0.41	-2.32	-9.49	-6.19	-10.14	-13.57	-13.38	-12.59	-8	-6.35	-4.57	-3.61	-4.37	-7.75	-12.08	-5.12	-5.34
θ (105°)	-6.08	-5.73	-7.14	-7.97	-5.09	-2.57	-1.16	-0.64	-1.78	-6.65	-7.69	-7.89	-21.24	-16.86	-11.23	-8.89	-11.15	-7.59	-6.08	-8.76	-8.81	-6.11	-9.5	-7.84	-6.08
θ (120°)	-10.88	-11.85	-7.88	-6.49	-4.49	-2.37	-0.88	-0.65	-2.38	-6.01	-9	-12.7	-17.07	-11.74	-7.02	-7.52	-5.58	-2.09	-1.43	-4.08	-14.55	-9.7	-7.09	-8.94	-10.88
θ (135°)	-24.46	-18.33	-8.28	-4.61	-3.44	-2.78	-2.48	-3.41	-5.98	-8.81	-8.37	-10.23	-12.49	-5.31	-5.87	-12.95	-4.16	-1.05	-1.65	-5.54	-12.4	-7.74	-6.8	-11.16	-24.46
θ (150°)	-23.83	-16.05	-8.9	-5.73	-4.36	-4.35	-5.19	-6.68	-8.24	-8.55	-9.49	-18.61	-11.77	-4.81	-4.59	-11.17	-13.77	-5.39	-3.86	-5.82	-10.29	-7.32	-4.82	-7.01	-23.83
θ (165°)	-31.47	-18.32	-12.01	-6.74	-3.16	-1.24	-0.54	-0.92	-2.43	-5.41	-11.52	-48.19	-14.29	-12.48	-20.48	-13.93	-5.48	-2.09	-0.96	-1.41	-3.3	-6.66	-11.54	-17.22	-31.47
θ (180°)	-14.11	-16.5	-18.28	-15.63	-11.51	-8.52	-6.68	-5.7	-5.33	-5.8	-7.33	-10	-13.77	-15.66	-13.6	-11.53	-10.32	-9.56	-8.98	-8.67	-8.77	-9.23	-10.11	-11.51	-14.11

Ant.	No.1																										
Freq (MHz)	5200																										
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°)	-0.36	-1.36	-3.25	-6.75	-11.94	-11.98	-7.12	-3.63	-1.17	0.17	0.39	0.45	0.32	-0.8	-3.03	-6.46	-12.27	-12.76	-6.88	-3.22	-0.91	0.33	0.9	0.81	-0.36		
θ (15°)	-0.11	-2.91	-6.91	-12.86	-31.68	-10.52	-5.07	-3.53	-3.97	-4.87	-4.39	-3.2	-2.96	-2.88	-3.3	-5.52	-7.92	-7.34	-6.18	-5.34	-4.54	-3.42	-1.42	0.07	-0.11		
θ (30°)	-1.94	-1.68	-5.89	-7.65	-8.55	-13.11	-12.89	-5.26	-2.01	-3.37	-4.35	-1.26	-4.7	-2.95	-4.87	-6.99	-6.34	-11.7	-19.07	-13.1	-16.51	-12.94	-4.03	-5.95	-1.94		
θ (45°)	-7.15	-0.03	-1.55	-5.25	-9.83	-8.91	-5.58	-5.33	-7.69	-7.35	-9.15	-2.1	-6.36	-2.87	-4.18	-8.44	-8.19	-5.63	-11.18	-24.35	-14.48	-7.91	-8.76	-5.38	-7.15		
θ (60°)	0.39	2.52	1.18	-0.89	-5.11	-8.12	-12.21	-14.06	-20.89	-19.86	-6.62	-8.48	-4.94	-5.98	-9.56	-16.79	-18.61	-31.73	-7.8	-7.07	-12.27	-2.18	-4.2	-0.37	0.39		
θ (75°)	-1.74	-1.68	-3.99	-17.27	-16.88	-13.89	-8.29	-11.14	-10.56	-16.3	-19.91	-12.32	-12.87	-6.89	-24.7	-14.43	-8.33	-5.03	-13.84	-19.4	-12.34	-6.11	-2.91	-1.22	-1.74		
θ (90°)	-1.75	-2.76	-1.69	-2.44	-7.09	-23.78	-12.19	-11.94	-9.09	-7.79	-9.03	-6.37	-11.58	-10.06	-13.81	-13.85	-8.43	0.09	-8.19	-4.68	-13.09	-19.79	-6.04	-1.1	-1.75		
θ (105°)	-7.11	-2.81	-8.73	-4.5	-8.59	-13.07	-9.97	-7.02	-4.83	-4.87	-13.31	-7.98	-7.36	-11.18	-7.06	-11.11	-9.81	-12.24	-15.75	-22.88	-9.56	-7.69	-20.89	-5.68	-7.11		
θ (120°)	-9.01	-8.96	-7.13	-10.36	-8.18	-9.91	-6.67	-4.44	-4.55	-2.51	-1.36	-3.04	-9.57	-2.71	-5.98	-8.61	-15.53	-6.96	-9.65	-8.96	-9.36	-22.99	-12.95	-12.74	-9.01		
θ (135°)	-3.08	-14.64	-2.52	-5.26	-6.5	-13.93	-13.48	-10.42	-7.93	-6.8	1.72	2.49	-1.8	-5.32	-4.13	-5.69	-5.42	-9.54	-14.16	-25.22	-11.72	-13.86	-21.45	-18.28	-3.08		
θ (150°)	-3.5	-1.54	-2.62	-3.2	-4.48	-9.39	-16.98	-11.69	-11.62	-8.34	-3.31	0.56	2.18	0.25	[3.11]	1.12	-17.01	-4.37	-6.28	-12.96	-17.41	-13.33	-7.97	-7.64	-3.5		
θ (165°)	1.07	1.63	0.52	-1.86	-5.29	-7.04	-4.51	-2.17	-1.13	-1.02	-1.21	-1.34	-2.39	-3.87	-3.24	-4.92	-14.02	-18.76	-13.68	-18.59	-13.18	-6.79	-3.58	-1.46	1.07		
θ (180°)	1.88	1.67	0.91	-0.77	-3.57	-8.56	-20.43	-9.97	-4.78	-1.88	0.41	1.91	2.45	2.34	1.73	0.42	-2.28	-6.56	-10.25	-8.18	-4.26	-1.23	0.5	1.41	1.88		
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°)	-5.56	-3.24	-1.3	-0.14	0.56	0.81	0.45	-0.38	-1.94	-4.71	-8.46	-8.98	-6.09	-2.69	-0.36	0.8	1.34	1.36	1.11	0.27	-1.41	-4.08	-7.96	-9.44	-5.56		
θ (15°)	-7.61	-6.04	-4.82	-2.75	-0.54	-0.08	-1.53	-5.43	-7.13	-6.5	-7.41	-8.51	-6.83	-4.11	-2.98	-3.07	-3.68	-5.08	-6.16	-7.08	-9.57	-11.18	-8.4	-8.3	-7.61		
θ (30°)	-6.69	-16.83	-21.42	-14.02	-5.65	-4.3	-3.4	-2.49	-3.37	-4.9	-3.64	-9.39	-9.85	-7.34	-9.15	-7.49	-1.89	-0.59	-0.7	-2.67	-6.27	-7.96	-9.66	-7.05	-6.69		
θ (45°)	-8.69	-26.34	-8.51	-9.05	-4.05	-1.91	0.02	1.51	0.35	-4.82	-3.57	-9.52	-10.58	-6.91	-4.54	-2.63	-3.02	-6.33	-1.45	1.34	0.46	-3.73	-14.37	-9.39	-8.69		
θ (60°)	-18.69	-7.33	-9.24	-9.88	-8.89	-3.53	0.23	1.59	1.05	-0.96	-5.55	-8.43	-12.74	-12.33	-7.06	-25.55	-8.49	-13.01	-6.83	-0.82	-0.88	1.5	-2.41	-2.16	-18.69		
θ (75°)	-6.98	-26.33	-4.34	-7.92	-5.9	-3.15	0.56	-0.55	-3.09	-2.85	-2.86	-6.45	-13.41	-12.55	-10.08	-6.17	-3.94	-7.4	-5.04	-8.66	-1.74	-3.52	-1.18	-2.04	-6.98		
θ (90°)	-12.18	-20.07	-4.42	-0.29	[1.75]	0.3	0.28	0.34	-3.44	-0.32	-2.07	-11.56	-5.32	-40.26	-6.06	-3.36	-5.34	-9.47	-5.81	-3.55	-11.28	-3.45	-3.88	-2.67	-12.18		
θ (105°)	-10.82	-7.44	-5.32	0.52	0.08	-0.65	-2.94	-1.97	-4.01	-3.96	-9.97	-8.54	-6.58	-17.6	-6.46	-5.32	-10.33	-7.48	-14.56	-15.15	-11.31	-15.2	-3.42	-7.38	-10.82		
θ (120°)	-17.26	-10.46	-8.9	-10.32	-4.04	-1.5	0.26	-1.54	-1.04	-1.31	-3.64	-10.15	-16.76	-21.69	-6.98	-9.81	-12.93	-7.47	-10.02	-17.62	-11.49	-11.96	-5.1	-5.34	-17.26		
θ (135°)	-18.22	-16.59	-3.42	-0.98	0.44	1.42	-0.54	-1.37	0.27	-1.96	-2.61	-5.93	-27.4	-6.76	-5.42	-5.72	-9.47	-1.33	-1.53	-4.68	-12.54	-6.16	-7.67	-11.52	-18.22		
θ (150°)	-12.8	-24.04	-3.38	0.43	0.67	-0.35	-1.84	-4.15	-4.15	-0.97	-2.43	-4.68	-14.88	-8.2	-4.91	-7.24	-26.5	-6.07	-3.64	-5.21	-6.8	-7.11	-9.62	-11.91	-12.8		
θ (165°)	-12.03	-6.14	-3.84	-2.59	-1.11	-0.27	-0.71	-2.6	-6.14	-8.19	-7.44	-8.92	-18.92	-17.08	-14.05	-14.67	-15.89	-5.01	-0.75	-0.19	-2.43	-7.66	-13.14	-15.12	-12.03		
θ (180°)	-15.62	-8.16	-3.34	-0.7	0.91	1.57	1.31	0.22	-1.65	-4.71	-8.59	-17.03	-18.17	-8.91	-4.66	-1.66	-0.4	0.11	0.32	0.55	0.31	-0.95	-3.54	-9.62	-15.62		

Ant.	No.1																								
Freq (MHz)	5300																								
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°)	-1.09	-2.34	-4.71	-8.33	-15.12	-15.4	-8.75	-5.13	-3.29	-1.7	-0.68	-1.03	-1.72	-2.79	-4.66	-8.16	-13.57	-14.4	-7.69	-3.92	-1.66	-0.68	-0.1	-0.08	-1.09
θ (15°)	-1	-2.6	-3.53	-6.08	-14.16	-14.52	-6.44	-4.02	-3.97	-5.53	-5.13	-4.97	-5.05	-5.53	-8.56	-12.44	-12.53	-12.23	-10.49	-7.98	-5.16	-1.56	0.76	0.96	-1
θ (30°)	-1.41	-1.7	-5.46	-7.22	-10.59	-18.44	-7.61	-4.38	-3.58	-3.82	-6.98	-1.81	-2.33	-5.18	-3.35	-7.4	-9.59	-11.25	-14.09	-13.02	-19.15	-6.77	-5.72	-6.94	-1.41
θ (45°)	-6.78	-0.27	-4.58	-9.33	-14.01	-6.9	-4.17	-5.38	-9.48	-9.73	-4.24	-3.06	-1.78	-6.65	-3.59	-9.86	-12.16	-10.52	-12.87	-30.27	-11.74	-5.46	-6.29	-5.24	-6.78
θ (60°)	-0.82	0.14	0.16	-2.24	-10.49	-10.11	-12.42	-15.07	-13.53	-10.59	-5.61	-6.35	-5.05	-5.01	-6.3	-14.24	-18.35	-15.02	-11.46	-14.16	-13.71	-6.74	-5.16	-1.78	-0.82
θ (75°)	-3.38	-4.54	-9.7	-12.04	-21.02	-6.86	-5.87	-9.76	-9.52	-8.31	-11.61	-8.99	-12.7	-5.51	-15.32	-11.75	-17.14	-9.73	-14.32	-10.62	-11.42	-7.9	-7.1	-2.56	-3.38
θ (90°)	-3.25	-3.28	-1.79	-4.51	-9.89	-12.72	-6.53	-7.45	-9.51	-5.58	-9.32	-9.47	-9.84	-17.52	-7.99	-8.77	-9.24	-0.71	-7.95	-5.61	-19.69	-18.76	-9.99	-2.04	-3.25
θ (105°)	-5.57	-4.73	-6	-9.63	-8.33	-8.82	-8.01	-5.11	-1.38	-1.05	-4.68	-5.72	-15.22	-6.72	-10.18	-12.5	-8.66	-9.96	-18.05	-11.83	-11.24	-8.33	-12.56	-7.13	-5.57
θ (120°)	-13.73	-7.57	-17.53	-8.54	-8.41	-14.29	-9	-6.91	-2.8	-1.16	0.62	0.4	-4.61	-2.18	-2.92	-10.92	-9.08	-8.3	-19.94	-8.76	-14.96	-36.7	-11.4	-11.9	-13.73
θ (135°)	-5.6	-13.17	-6.55	-7.66	-7.22	-10.71	-10.87	-7.25	-3.52	-4.99	-0.19	2.89	-0.21	-3.83	-7.3	-5.59	-4.35	-8.41	-18.42	-22.43	-12.38	-19.39	-23.67	-12.23	-5.6
θ (150°)	-4.07	-4.54	-3.39	-2.05	-4.78	-9.88	-16	-18.4	-15.51	-7.93	-2.23	-0.45	1.82	-1.45	1.54	1.14	-15.14	-7.02	-12.17	-20.74	-19.67	-11.23	-8.15	-15.48	-4.07
θ (165°)	0.5	0.16	-1.7	-4.6	-8.77	-12.13	-6.76	-3.06	-1.68	-1.78	-1.84	-0.73	-0.87	-3.31	-2.93	-3.13	-7.62	-12.52	-11.77	-17.1	-11.22	-5.92	-3.61	-1.64	0.5
θ (180°)	1.55	1.27	0.36	-1.42	-4.2	-10.22	-17.46	-8.07	-3.75	-1.06	1.12	2.44	[2.92]	2.66	1.82	-0.14	-3.67	-8.44	-10.37	-6.12	-2.84	-0.62	0.87	1.64	1.55
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°)	-8.04	-5.14	-2.89	-1.69	-0.91	-0.93	-1.75	-2.98	-4.86	-8.35	-14.53	-18.94	-8.74	-4.57	-1.97	-0.53	0.05	0.05	-0.45	-2.2	-4.68	-9.43	-18.58	-17.45	-8.04
θ (15°)	-9.09	-6	-2.27	0.58	1.66	1.27	-0.31	-3.15	-8.38	-14.28	-15.06	-14.08	-12.65	-9.27	-4.73	-3.38	-4.73	-6.28	-8	-8.78	-6.73	-6.13	-10.96	-16.08	-9.09
θ (30°)	-9.15	-12.53	-8.67	-4.09	-3.72	-3.44	-4.2	-7.34	-10.14	-6.57	-4.84	-9.12	-9.23	-10.34	-9.98	-16.7	-2.18	0.4	-0.28	-3.13	-7.83	-17.2	-9.71	-4.14	-9.15
θ (45°)	-5.92	-11.71	-9.85	-10.61	-8.19	-5.3	-3.36	-1.62	-0.73	-2.13	-2.95	-7.7	-12.5	-8.55	-4.81	-2.38	-4.27	-6.64	-4.59	-1.73	-2.7	-12.61	-9.91	-11.43	-5.92
θ (60°)	-14.32	-15.45	-8.04	-9.22	-5.29	-1.75	-0.6	0.13	0.24	-1.09	-5.85	-11.54	-11.82	-8.12	-6.08	-9.65	-10.91	-7.22	-3.89	-2.41	-2.03	-0.33	-5.28	-4.35	-14.32
θ (75°)	-6.43	-14.47	-3.64	-5.24	-5.36	-1.79	0.61	0.71	-2.4	-3.52	-5.04	-8.54	-12.61	-11.87	-7.02	-9.29	-3.92	-7.02	-8.12	-6.09	-1.11	-2.88	0.2	-3.93	-6.43
θ (90°)	-7.37	-18.44	-4.65	-0.46	1.68	0.66	0.7	0.72	-1.29	-3.78	-4.91	-10.26	-12.68	-15.38	-6.48	-2.14	-5.31	-8.34	-5.22	-2.69	-19.2	-0.84	-2.58	-2.98	-7.37
θ (105°)	-18.36	-11.43	-3.32	1.01	1.42	0.59	-0.22	0.47	-1.57	-5.01	-6.33	-11.79	-8.12	-23.87	-3.78	-4.67	-6.97	-9.08	-13.62	-14.64	-8.58	-10.71	-2.16	-10.67	-18.36
θ (120°)	-28.07	-21.18	-17.36	-4.33	-0.67	0.95	0.05	-2.94	-4.5	-1.28	-4.39	-6.49	-18.69	-18.65	-6.88	-9.26	-11.49	-12.88	-11.33	-18.22	-18.45	-6.54	-5.5	-6.55	-28.07
θ (135°)	-14.49	-16.17	-1.56	-1.85	0.98	0.69	-2.05	-1.23	1.13	0.62	-3.31	-3.8	-17.62	-7.55	-9.31	-5.05	-10.93	-1.28	-1.4	-6.4	-11.24	-9.11	-11.95	-12.63	-14.49
θ (150°)	-18.67	-13.9	-1.88	1.23	1.12	-0.41	-2.07	-3.51	-3.48	-1.53	-2.8	-6.35	-10.93	-7.92	-7.78	-5.26	-10.49	-9.01	-6	-11.94	-11.81	-8.62	-10.29	-15.35	-18.67
θ (165°)	-8.74	-5.34	-3.72	-1.39	0.88	2.08	[2.17]	1.06	-0.9	-2.38	-3.21	-5.29	-13.87	-15.87	-11.62	-10.23	-14.32	-13.22	-4.39	-2.32	-4.16	-9.34	-12.76	-13.28	-8.74
θ (180°)	-14.08	-7.09	-2.82	-0.46	0.97	1.69	1.74	0.91	-1.01	-3.59	-7.38	-14.58	-18.45	-8.94	-3.49	-0.55	0.68	0.61	-0.28	-0.2	-0.67	-2.23	-5.28	-12.11	-14.08

Ant.	No.1																								
Freq (MHz)	5600																								
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°)	-1.61	-1.8	-2.67	-4.4	-7.04	-11.97	-26.99	-13.12	-7.02	-3.92	-1.93	-0.98	-1.35	-1.8	-2.49	-3.74	-6.27	-10.52	-18.47	-18.51	-9.88	-5.73	-3.48	-2.3	-1.61
θ (15°)	-3.59	-3.49	-6.32	-9.6	-7.66	-6.76	-6.78	-5.34	-2.85	-2.18	-3.45	-2.51	0.08	0.25	-1.32	-3.82	-8.15	-12.75	-13.29	-9.82	-5.95	-3.77	-3.87	-5.04	-3.59
θ (30°)	-5.39	-4.35	-5.78	-10.28	-24.66	-10.01	-5.89	-6.88	-7.94	-3.57	-0.16	-6.08	-4.56	-2.01	-3.46	-5.13	-5.01	-5.71	-8.51	-13.02	-22.38	-11.17	-19.7	-9.94	-5.39
θ (45°)	-0.49	-0.97	-5.42	-8.37	-5.54	-11.72	-9.3	-8.92	-9.85	-8.62	-3.23	-10.84	-5.52	-13.4	-7.82	-8.95	-14.71	-9.13	-7.35	-15.93	-5.65	-8.13	-5.87	-9.03	-0.49
θ (60°)	-5.16	-0.58	-3.35	-7.39	-0.79	-5.77	-13	-12.92	-8.96	-8.32	-13.77	-8.76	-5.39	-8.54	-7.22	-10.82	-9.66	-7.98	-10.29	-6.93	-30.13	-3.79	-4.83	-1.42	-5.16
θ (75°)	-2	-1.2	-2.47	-3.43	-1.68	-3.3	-3.79	-7.6	-1.93	-1.38	-13.42	-20.76	-12.94	-9.29	-17.92	-14.68	-11.82	-6.82	-6.59	-3.59	-13.08	-4.71	-5.87	-0.95	-2
θ (90°)	-9.63	-14.37	-16.5	-21.31	-14.99	-8.81	-8.48	-8.34	-7.2	-4.08	-6.5	-7.24	-6.32	-14.4	-11.97	-11.69	-9.24	-1.77	-11.82	-10.19	-15.01	-7.59	-7.14	-6.07	-9.63
θ (105°)	-5.88	-6.86	-7.65	-6.73	-9.69	-9.44	-14.62	-11.51	-3.22	0.03	-1.56	-2.24	-3.36	-8.12	-7.88	-11.73	-9.54	-18.36	-10.71	-11.86	-9.48	-8.6	-5.2	-6.14	-5.88
θ (120°)	-3.52	-2.37	-3.92	-1.95	-5.43	-14.53	-20.87	-6.86	-3.54	-0.07	0.67	2.99	1.09	-5.76	-1.5	-9.06	-6.06	-14.83	-7.33	-6.37	-19.7	-13.79	-10.69	-8.77	-3.52
θ (135°)	-10.45	-3.69	-2.84	-3.98	-8.77	-17.13	-9.66	-9.97	-2.74	0.24	2.13	3.8	2.63	1.43	-4.87	-2.63	-3.83	-5.25	-7.8	-11.65	-10.72	-8.46	-6.87	-3.54	-10.45
θ (150°)	-2.75	-0.06	2.27	-0.77	-7.94	-12.64	-18.36	-21	-8.31	-1.84	1.41	0.77	-0.07	1.85	0.46	2.44	-8.89	-6.47	-8.21	-11.66	-14.46	-8.03	-13.27	-4.09	-2.75
θ (165°)	1.85	1.12	-0.3	-2.42	-5.14	-7.49	-8.92	-6.42	-3.66	-2.03	-0.78	0.39	0.8	-0.3	-2.13	-4.02	-13.25	-13.86	-9.73	-9.57	-7.36	-5.67	-2.14	0.49	1.85
θ (180°)	2.74	2.39	1.62	0.25	-2.21	-6.32	-12.86	-8.22	-3.17	-0.12	1.86	3.48	[4.30]	4.25	3.41	1.41	-2.01	-7.47	-13.35	-6.69	-1.88	0.48	1.8	2.54	2.74
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°)	-27.09	-12.77	-6.44	-3.75	-2.23	-1.14	-0.89	-1.43	-2.41	-4.27	-7.9	-13.68	-26.12	-15.69	-8.63	-4.89	-3.15	-2.29	-1.94	-1.83	-2.4	-3.72	-6.62	-12.51	-27.09
θ (15°)	-16.63	-9.23	-5.52	-6.68	-8.67	-6.2	-4.3	-3.83	-5.5	-12.52	-11.53	-10.61	-8.78	-5.69	-5.09	-3.55	-1.51	-0.81	-1.08	-1.53	-2.64	-6.34	-8.75	-8.91	-16.63
θ (30°)	-15.71	-13.69	-16.53	-8.95	-4.07	-1.84	-3.31	-5.75	-6.32	-8.5	-12	-5.5	-11.91	-4.09	-4.11	-6.85	-8.65	-5.32	-4.42	-5.37	-5.35	-2.82	-1.41	-4.52	-15.71
θ (45°)	-3.12	-5.98	-9.76	-11.78	-1.31	0.44	-1.28	-3.68	-4.64	-4.91	-7.79	-9.3	-15.83	-10.05	-4.93	-4.08	-3.27	-5.58	-2.18	-0.7	-8.65	-6.3	-2.29	2.1	-3.12
θ (60°)	-8.42	-12.19	-6.66	-18.1	-4.9	-2.09	-1.58	-1.59	-2.23	-2.56	-5.99	-6.52	-28.04	-14.86	-3.76	-5.66	-9.77	-23.3	-9.53	-7.54	-1.4	-11.15	-5.03	-6.08	-8.42
θ (75°)	-18.33	-8.43	-20.25	-3.35	-2.3	-0.38	-3.06	-5.28	-2.54	-3.52	-6.93	-7.37	-10.52	-13.32	-2.6	-3.11	-8.91	-6.78	-5.42	-6.11	-2.59	-2.28	-1.74	-2.1	-18.33
θ (90°)	-13.81	-9.86	-10.84	-8.67	-6.08	-2.18	-1.62	-2.41	-0.93	-0.97	-4.12	-9.89	-8.03	-20.52	-4.83	-3.8	-7.25	-2.46	-9.8	-6.45	-7.65	-5.38	-1.85	-8.12	-13.81
θ (105°)	-17.14	-10.66	-4.15	-2.13	2.09	-0.42	-2.27	-1.22	-0.42	-3.8	-6.39	-8.06	-12.08	-13.43	-11.9	-6.34	-6.8	-10.67	-14.8	-11.86	-8.48	-7.03	-4.75	-9.26	-17.14
θ (120°)	-12.2	-5.25	-7.22	-3.49	-8.42	-4.1	-7.28	-7.35	-5.22	-3.88	-1.03	-2.57	-7.29	-13.57	-29.94	-17.33	-8.15	-10.53	-5.09	-10.29	-16.67	-8.42	-6.29	-7.05	-12.2
θ (135°)	-18.08	-3.79	-0.01	-0.32	0.85	-1.29	-0.99	1.08	1.41	-0.43	-5.01	-2.99	-18.9	-4.24	-12.99	-7.13	-5.71	-3.14	-3.66	-5.46	-7.39	-16.74	-8.35	-9.79	-18.08
θ (150°)	-10.53	-7.04	-0.5	0.64	-3.21	-5.99	-6.9	-7.28	-5.43	-1.63	0.15	-8.94	-3.55	-9.33	-2.27	-3.63	-4.77	-4.77	-1.43	-1.7	-2.21	-5.83	-13.19	-15.8	-10.53
θ (165°)	-11.66	-17.54	-6.51	-0.54	1.95	[2.96]	2.74	1.59	-0.68	-4.01	-5.76	-6.5	-9.99	-16.21	-9.98	-12.1	-11.69	-7.07	-2.21	-2.49	-6.91	-11.17	-9.31	-11.39	-11.66
θ (180°)	-21.02	-11.72	-4.71	-1.24	0.61	1.77	2.1	2.04	1.07	-1.11	-2.64	-5.5	-14.28	-9.44	-2.51	0.57	0.73	1.01	2.22	1.97	1.61	0.01	-3.13	-8.15	-21.02

Ant.	No.1																								
Freq (MHz)	5785																								
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°)	0.37	-0.06	-1.07	-3.03	-6.64	-10.98	-13.61	-8.21	-4.31	-2.21	-1.29	-0.66	0.2	0.12	-0.79	-2.4	-4.51	-9.02	-15.23	-10.32	-5.14	-2.16	-0.56	0.1	0.37
θ (15°)	-0.08	-0.87	-3.16	-3.63	-4.51	-6.56	-9.17	-9.95	-7.54	-6.33	-6.18	-4.58	-2.12	-1.31	-1.7	-2.92	-6.2	-11.69	-41.67	-12.84	-6.09	-3.7	-2.42	-1.28	-0.08
θ (30°)	-2.44	-5.47	-11.63	-10.33	-5.2	-3.91	-6.52	-11.75	-8.79	-4.88	-4.18	-9	-3.81	-1.5	-5.64	-9.59	-4.33	-2.22	-4.78	-8.3	-10.66	-29.56	-7.41	-2.98	-2.44
θ (45°)	-6.71	-8.44	-15.88	-12.03	-9.47	-13.48	-6.47	-15.22	-12.77	-11.4	-7.87	-5.94	-6.51	-8.9	-15.07	-8.16	-8.72	-8.56	-8.56	-12.73	-5.68	-10.43	-9.19	-22.43	-6.71
θ (60°)	-8.98	-5.62	-11.48	-6.84	-1.65	-10.18	-10.13	-11	-6.53	-6.88	-14.87	-9.29	-6.99	-6.74	-8.69	-21.85	-17.8	-10.1	-8.64	-8.13	-15.06	-3.68	-4.71	-4.83	-8.98
θ (75°)	-5.54	-3	-2.21	-4.56	-4.31	-8.21	-7.56	-7.69	-4.81	0.17	-7.74	-8.31	-6.49	-15.36	-10.63	-24.23	-31.22	-8.59	-8.26	-7.6	-20.23	-8.02	-7.32	-2.58	-5.54
θ (90°)	-12.77	-8.72	-16.15	-19.57	-15.74	-9.84	-8.03	-9.49	-6.99	-1.87	-4.58	-0.51	-1.03	-10.9	-16.55	-9.07	-14.66	-3.21	-9.57	-11.45	-14.67	-12.15	-5.8	-4.64	-12.77
θ (105°)	-11.77	-10.49	-9.66	-7.89	-8.96	-5.9	-11.04	-11.15	-3.93	-2.85	-5.26	-3.96	-0.7	-12.27	-18.65	-15.05	-11.45	-19.13	-13.1	-16.14	-11.7	-11.17	-9.88	-8.46	-11.77
θ (120°)	-3.34	-7.16	-5.94	-5.31	-5.77	-15.46	-12.94	-9.57	-12.02	-0.79	-0.46	-1.37	2.64	-2.22	-6.79	-7.44	-6.31	-10.59	-4.65	-6.27	-11.43	-9.95	-6.56	-14.75	-3.34
θ (135°)	-9.57	-3.96	-1.22	-0.54	-6.23	-18	-24.29	-8.5	-3.62	-0.31	1.12	3.21	1.6	0.92	-3.48	-4.75	-4.03	-4.44	-12.64	-13.74	-12.73	-11.18	-9.03	-4.9	-9.57
θ (150°)	-3.71	0.76	2.8	0.08	-4.25	-12.7	-25.6	-14.74	-9.25	-4.29	0.69	3.32	-0.7	-0.03	-3.93	2.12	-3.64	-6.96	-6.35	-12.8	-23.36	-13.56	-14.94	-2.97	-3.71
θ (165°)	1.4	0.4	-0.94	-2.07	-3.96	-6.86	-8.07	-5.77	-3.32	-2.27	-2.49	-2.01	-1.33	-1.53	-2.37	-4.51	-11.9	-18.59	-11.57	-10.61	-8.4	-5.81	-1.7	0.58	1.4
θ (180°)	3.24	2.97	2.16	0.55	-2.25	-7.24	-15.9	-7.47	-2.73	0.07	2.2	3.65	[4.33]	4.15	3.33	1.63	-2.1	-8.48	-17.04	-7.32	-2.36	0.56	2.22	2.97	3.24
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°)	-13.47	-8.39	-4.1	-1.84	-1.02	-0.3	-0.21	-0.69	-1.8	-4.09	-7.99	-14.88	-14.18	-7.73	-4.25	-2.05	-0.46	0.62	0.41	-0.42	-1.33	-2.73	-6.1	-11.81	-13.47
θ (15°)	-10.64	-7.04	-4.47	-4.43	-3.41	-1.87	-1.56	-2.43	-5.66	-12.86	-15.56	-14.89	-26.03	-7.5	-3.08	-2.22	-1.94	-1.27	-0.45	-1.06	-2.07	-4.39	-6.22	-7.05	-10.64
θ (30°)	-12.57	-28.43	-13.56	-12.09	-10.44	-4.58	-3.52	-3.78	-3.97	-8.97	-23.34	-12.26	-14.27	-6.02	-4.04	-7.96	-15.04	-11.65	-6.34	-6.11	-3.58	-0.16	-1.84	-6.47	-12.57
θ (45°)	-5.74	-12.66	-10.77	-10.65	-3.7	-2.58	-1.8	-1.81	-3.18	-4.36	-13.93	-11.03	-26.36	-7.14	-5.97	-5.47	-1.01	-1.84	-1.8	-2.85	-15.22	-6.22	-1.27	0.89	-5.74
θ (60°)	-4.79	-15.68	-13.67	-10.28	-3.36	-0.43	0.7	0.96	-2.06	-2.12	-3.75	-7.07	-15.63	-10.16	-4.95	-3.74	-3.24	-14.64	-11.39	-4.24	-1.69	-3.97	-4.26	-3.6	-4.79
θ (75°)	-13.09	-17.81	-7.78	-10.61	-2.16	-1.58	-2.22	-2.26	-4.23	-2.69	-3.46	-5.18	-13.39	-9.46	-4.26	-6.19	-7.18	-11.2	-10.6	-7.85	-5.17	-0.8	-0.58	-0.35	-13.09
θ (90°)	-7.02	-7.61	-15.38	-5.88	-3.52	1.23	0.56	0.32	-0.88	0.96	0.79	-3.75	-10.31	-15.22	-5.49	-3.67	-6.92	-7.05	-6.54	-4.32	-12.6	-5.63	-2.14	-4.65	-7.02
θ (105°)	-6.86	-9.65	-8.08	-1.29	1.22	-2.38	-3.84	-4.59	-5.29	-4.62	-10.55	-11.49	-25.68	-10.83	-13.7	-8.37	-5.58	-4.83	-11.51	-13.31	-6.57	-4.69	-7.89	-9.17	-6.86
θ (120°)	-9.69	-6.26	-13	-11.29	-7.19	-7.3	-4.48	0.48	0.08	-5.77	-6.25	-5	-7.56	-13.54	-11.19	-9.88	-6.73	-6.71	-5.76	-12.17	-12.84	-13.76	-10.82	-10.71	-9.69
θ (135°)	-21.18	-7.53	-3.19	-3.3	0.01	-1.15	-0.48	-0.21	1.26	0.63	-3.76	-8.16	-13.79	-7.39	-12.35	-9.43	-10.45	-1.2	-0.16	-4.31	-6.83	-10.66	-11.2	-14.19	-21.18
θ (150°)	-11.04	-5.78	-0.57	-3.18	-9.38	-6.93	-9.94	-11.98	-11.98	-6.04	0.11	-5.46	-7.08	-17.22	-2.53	-1.23	-1.14	-4.03	-1.89	-1.54	-3.41	-10.22	-10.9	-10.97	-11.04
θ (165°)	-13.52	-12.72	-5.14	-0.4	1.94	2.43	1.57	-0.74	-4.82	-7.51	-6.76	-8.9	-8.13	-11.47	-17.17	-10.48	-8.19	-5.24	-1.64	-1.61	-4.11	-5.74	-7.67	-12.04	-13.52
θ (180°)	-19.82	-11.08	-4.94	-1.41	0.91	2.21	[2.64]	2.21	1.06	-1.82	-5.24	-8.92	-16.82	-7.8	-2.94	-0.2	0.12	1.03	1.41	1.68	1.66	-0.32	-3.51	-8.78	-19.82

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°)	-4.87	-5.36	-6.42	-7.98	-9.98	-11.52	-11.37	-10.2	-8.8	-7.45	-6.45	-5.89	-5.76	-6.09	-6.98	-8.61	-10.97	-13.12	-13.44	-11.72	-9.33	-7	-5.45	-4.64	-4.8
θ (15°)	-0.89	-0.14	-0.28	-1.01	-1.96	-2.83	-3.82	-5.29	-7.79	-11.44	-15.29	-17.77	-19.88	-22.61	-23.33	-18.95	-15.17	-12.26	-11.29	-12.32	-14.91	-11.29	-6.63	-3.53	-0.89
θ (30°)	0.76	2.28	2.54	1.61	0.27	-0.86	-2.05	-4.29	-9.32	-18.22	-10.17	-7.8	-9.65	-14.98	-22.58	-22.74	-16.1	-11.3	-7.25	-4.72	-4.3	-6.48	-12.71	-5.33	0.76
θ (45°)	0.43	2.55	1.81	0.11	-0.97	-1.32	-2.29	-5.31	-14.07	-8.09	-2.66	-3.19	-10.95	-15.41	-10.46	-11.59	-14.86	-19.69	-9.88	-5.23	-3.5	-3.96	-10.21	-13.89	0.43
θ (60°)	-1.85	1.19	0.72	-0.83	-1.63	-2.17	-2.94	-4.82	-9.62	-10.6	-3.6	-3.53	-11.17	-5.08	-2.87	-5.5	-12.68	-17.75	-13.47	-13.32	-6.98	-0.99	0.02	-6.77	-1.85
θ (75°)	-3.38	-1.85	-1.59	-0.2	-0.18	-1.05	-1.79	-2.54	-3.43	-4.73	-4.88	-6.76	-10.14	-6.23	-7.69	-11.83	-10.91	-9.47	-10.32	-10.25	-3.73	1.91	3.91	2.12	-3.38
θ (90°)	1.56	-2.49	-11.01	-6.04	-2.77	-1.63	-0.62	-0.2	-1.12	-3.67	-5.74	-9.3	-13.29	-3.44	-2.1	-2.39	-4.02	-8.44	-12.31	-9.85	-5.15	-0.59	3.68	[5.16]	1.56
θ (105°)	3.34	0.41	-3.4	-5.02	-3.13	-1.76	-0.79	-1.09	-2.48	-3.15	-6.45	-13.46	-4.33	-4.4	-3.8	-1.16	-2.4	-7.41	-17.95	-13.09	-3.3	0.99	3.5	4.61	3.34
θ (120°)	1.37	-0.58	-3.63	-4.42	-3.56	-3.66	-3.88	-3.19	-1.44	-0.7	-3.74	-12.43	-7.87	-10.02	-7.09	-2.96	-2.96	-4.44	-5.79	-8.82	-16	-5.08	0.06	2.16	1.37
θ (135°)	-3.52	-5.51	-9.21	-13.28	-11.13	-6.81	-3.51	-1.43	-0.72	-1.89	-5.91	-9.59	-6.71	-6.86	-8.96	-10.56	-10.14	-9.3	-9.77	-7.94	-5.11	-4.71	-4.43	-3.49	-3.52
θ (150°)	-3.25	-2.41	-2.89	-4.43	-5.53	-5.2	-4.35	-3.79	-4.07	-6.12	-12.09	-16.78	-8.49	-6.33	-8.16	-15.39	-16.13	-13.02	-17.29	-9.08	-3.78	-2.44	-3.92	-5.57	-3.25
θ (165°)	-9.62	-9.08	-8.33	-7.9	-7.47	-7.01	-6.82	-6.78	-7.2	-8.23	-9.92	-11.58	-11.98	-12.25	-13.34	-12.69	-9.97	-8.12	-7.33	-6.49	-5.43	-4.9	-5.92	-7.54	-9.62
θ (180°)	-13.33	-11.9	-10.93	-10.5	-10.77	-11.65	-13.59	-17.56	-28.34	-24.54	-16.79	-13.63	-12.03	-11.23	-10.77	-10.59	-11.03	-11.95	-13.16	-15.09	-19.92	-31.11	-24.04	-17.51	-13.33
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°)	-10.29	-8.7	-7.15	-6.03	-5.22	-4.78	-4.72	-5.15	-6.19	-7.99	-10.27	-11.77	-11.25	-9.77	-8.36	-7.15	-6.17	-5.35	-4.86	-5	-5.99	-7.95	-10.49	-11.96	-10.29
θ (15°)	-13.21	-6.11	-2.93	-1.6	-1.54	-2.35	-3.53	-4.71	-5.74	-6.85	-8.18	-9.43	-10.67	-12.11	-13.97	-15.72	-16.62	-15.59	-12.32	-9.41	-7.68	-7.49	-9.89	-15.2	-13.21
θ (30°)	-19.23	-8.25	-3.78	-2.48	-3.07	-4.97	-7.22	-7.12	-5.79	-5.94	-8.21	-11.83	-14.44	-15.02	-11.53	-10.22	-12.62	-17.39	-20.05	-18.32	-9.62	-5.91	-5.77	-10.39	-19.23
θ (45°)	-12.12	-6.22	-4.5	-5.82	-9.94	-17.73	-13.1	-7.46	-4.94	-5.27	-11.07	-19.69	-14.86	-13.63	-6.13	-7.1	-15.67	-8.19	-5.12	-7.34	-18.22	-11.52	-7.99	-9.85	-12.12
θ (60°)	-5.56	-8.43	-9.77	-8.59	-9.47	-10.63	-10.1	-9.54	-8.67	-8.23	-15.63	-11.27	-6.62	-11.67	-7.06	-5.05	-8.31	-7.4	-3.53	-2.06	-3.15	-6.94	-8.59	-5.61	-5.56
θ (75°)	-2.49	-8.58	-10.74	-7.38	-9.92	-9.47	-7.58	-9.29	-13.89	-11.8	-14.41	-5.66	-5.31	-22.74	-7.75	-10.33	-11	-7.31	-5.32	-3.25	-1.77	-1.75	-4.14	-5.23	-2.49
θ (90°)	[-1.39]	-3.65	-18.28	-11.43	-13.46	-8.74	-5.84	-7.47	-14.25	-11.17	-14.44	-3.84	-1.9	-14.55	-4.91	-3.99	-14.31	-13.3	-8.65	-6.47	-4.02	-1.57	-1.71	-6.54	-1.39
θ (105°)	-4.88	-4.98	-14.05	-15.92	-10.52	-7.99	-7.71	-9.83	-11.34	-15.53	-13.86	-4.52	-5.09	-15.72	-7.53	-9.97	-18.86	-6.85	-5.33	-6.26	-5.96	-4.2	-4.37	-9.78	-4.88
θ (120°)	-17.86	-12	-12.21	-10	-10.06	-12.73	-17.58	-27.06	-28.73	-21.9	-17.97	-19.12	-17.9	-16.61	-10.47	-7.42	-11.77	-14.18	-7.61	-7.35	-10.36	-8.18	-5.19	-8.54	-17.86
θ (135°)	-36.47	-15.02	-13.85	-16.25	-21.07	-24.83	-25.46	-24.31	-22.68	-20.26	-13.06	-10.38	-15.66	-11.72	-3.31	-1.87	-6.21	-23.12	-5.46	-2.98	-5.66	-17.4	-11.9	-10.89	-36.47
θ (150°)	-9.26	-8.94	-7.62	-7.8	-9.91	-13.39	-16.31	-16.49	-14.19	-10.13	-6.9	-5.83	-7.11	-9.05	-6.44	-4.78	-7.13	-19.83	-9.51	-4.72	-5.25	-11.29	-19.47	-10.07	-9.26
θ (165°)	-11.47	-10.9	-10.21	-9.69	-9.56	-9.69	-9.73	-9.25	-8.28	-7.06	-6.15	-6.29	-8.09	-12.34	-20.09	-19.65	-13.71	-9.77	-7.35	-6.37	-7.02	-9.44	-12.32	-12.6	-11.47
θ (180°)	-12.48	-14.61	-19.03	-25.37	-23.47	-17.25	-13.55	-11.58	-10.48	-9.95	-9.87	-10.63	-12.29	-15.31	-20.19	-28.45	-25.15	-19.18	-15.46	-13.2	-12.02	-11.51	-11.2	-11.3	-12.48

Ant.	No.2																								
Freq. (MHz)	5200																								
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°)	-23.85	-26.71	-22.69	-18.5	-14.93	-11.99	-11.38	-10.78	-10.99	-12.77	-15.07	-19.1	-20.83	-18.37	-15.23	-13.61	-12.97	-12.34	-12.33	-13.02	-12.23	-12.58	-14.13	-16.26	-23.85
θ (15°)	-17.28	-9.81	-7.75	-7.17	-7.22	-7.35	-7.76	-7.59	-6.26	-5.2	-5.74	-8.77	-13	-10.97	-8.83	-7.25	-4.95	-2.66	-1.03	-0.55	-1.17	-3.12	-7.35	-14.11	-17.28
θ (30°)	-6.02	-5.94	-9.73	-20.05	-8.05	-7.05	-10.21	-17.43	-13.21	-12.26	-16.19	-12.43	-9.34	-8.67	-7.9	-5.31	-3.53	-2.17	-1.43	-1.57	0.18	1.24	-0.23	-2.6	-6.02
θ (45°)	-4.74	-8.39	-5.75	-1.93	-2.7	-10.05	-14.47	-12.68	-15.51	-5.12	-3.69	-2.84	-6.13	-4.84	-4.08	-2.86	-5.2	-2.93	-0.22	-0.2	-3.17	-0.62	-1.21	-1.15	-4.74
θ (60°)	-6.89	-5.52	-13.25	-3.9	-3.7	-5.31	-9.82	-7.32	-6.26	-2.99	-0.15	-1.83	-5.44	-0.14	-1.26	0.55	1.96	1.98	-0.38	-1.7	-2.05	-5.58	-6.5	-1.96	-6.89
θ (75°)	-2.72	-5.1	-16.23	-10.92	-0.43	-3.74	-4.67	-5.85	-2.29	-2.17	-0.36	-2.05	-2.54	0.99	-0.46	4.77	5.31	3.91	0.29	-4.19	-8.63	-12.54	-0.34	0.61	-2.72
θ (90°)	-2.31	-2.96	-16.73	-6.72	-3.82	-6.81	3.7	0.59	-11.99	-5.99	-0.65	-6.57	-2.42	0.75	-1.61	5.47	[5.61]	5.07	2.25	-0.94	-10.82	-6.93	1.37	0.88	-2.31
θ (105°)	-3.14	-4.83	-20.3	-8	-1.34	-0.53	4.39	-3.49	-5.3	-8.98	-2.83	-8.89	-2.88	-0.04	-1.46	0.75	3.52	4.06	1.34	0.3	-8.65	-6.4	1.67	-0.86	-3.14
θ (120°)	-5.37	-11.69	-20.84	-11.6	-3.89	-8.5	-15.83	-16.52	-3.56	-3.66	-3.61	-4.78	-3.35	-1.06	-0.28	0.06	-0.53	2.11	2.07	-0.17	-8.18	-17.94	-1.97	-4.39	-5.37
θ (135°)	-3.52	-12.29	-12.69	-10.02	-7.38	-2.58	-0.78	-11.44	-5.56	-4.18	-4.87	-3.7	-5.15	-1.08	-2.12	-0.53	-0.63	-1.98	-3.62	-6.85	-7.74	-11.75	-14.59	-12.64	-3.52
θ (150°)	-5.87	-4.3	-8.47	-15.9	-4.96	-4.37	-4.34	-2.42	-2.86	-8.97	-7.42	-4.84	-7.72	-3.1	-2.7	-8.06	-13.22	-13.57	-10.96	-9.47	-12.41	-17.09	-12.81	-17.64	-5.87
θ (165°)	-20.19	-12.58	-6.54	-7.81	-16	-11.42	-10.29	-16.84	-12.85	-8.01	-8.49	-12.48	-16.47	-13.62	-9.41	-6.72	-5.55	-4.66	-4.27	-4.26	-5.18	-9.6	-22.36	-13.13	-20.19
θ (180°)	-12.91	-9.65	-7.35	-6.02	-5.34	-3.88	-3.43	-3.73	-5.11	-8.1	-12.68	-20.34	-15.8	-10.78	-7.79	-5.67	-4.52	-4	-4.7	-5.59	-7.25	-10.32	-15.55	-27.75	-12.91
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°)	-11.17	-10.86	-10.87	-10.91	-13.07	-13.65	-16.39	-20.03	-17.26	-13.44	-12.11	-11.47	-11.5	-12.3	-13.4	-14.47	-15.57	-18.16	-21.19	-18.16	-19.17	-17.09	-14.2	-12.48	-11.17
θ (15°)	-8.14	-4.65	-4.24	-5.57	-8.41	-11.22	-12.02	-12.05	-13.69	-11.58	-6.06	-3.45	-2.9	-4.51	-7.15	-7.94	-7.08	-7.15	-9.06	-13.98	-21.82	-23.06	-25.51	-17.34	-8.14
θ (30°)	-12.89	-13.06	-13.23	-14.35	-13.69	-9.7	-7.19	-6.43	-6.56	-8.3	-7.11	-3.7	-2.39	-4.7	-24.66	-6.84	-3.38	-4.74	-7.64	-9.01	-16.55	-11.27	-12.81	-16.84	-12.89
θ (45°)	-8.5	-14.07	-8.93	-5.16	-5.46	-9.92	-10.53	-9.43	-8.52	-5.68	-6.84	-10.18	-8.79	-12.34	-21.85	-13.45	-11.1	-12.94	-23.35	-13.52	-9.77	-13.95	-10.2	-26.43	-8.5
θ (60°)	-5.3	-10.37	-17.34	-6.02	-7.12	-9.67	-11.63	-9.73	-5.62	-9.52	-7.22	-12.66	-16.92	-24.3	-19.33	-13.24	-18.36	-18.77	-15.33	-15.02	-13.27	-12.06	-12.2	-15.34	-5.3
θ (75°)	-19.4	-17.62	-10.62	-10.55	-19.17	-16.84	-13.49	-16.11	-7.65	-8.28	-9.53	-15.49	-30.37	-7.24	-12.93	-7.95	-8.28	-15.43	-17.78	-15.81	-14.2	-9.29	-6.62	-9.57	-19.4
θ (90°)	-8.26	-18.85	-8.45	-14.01	-10.01	-12.18	-15.16	-11.98	-8.16	-9.31	-6.63	-7.78	-16.78	-4.2	-15.1	-12.56	-23.66	-17.1	-16.74	-17.06	-19.9	-27.05	-13.22	-7.04	-8.26
θ (105°)	-8.67	-14.11	-15.15	-12.43	-6.76	-5.78	-7.06	-6.04	-9.83	-18.48	-22.75	-11.91	-8.11	-4.48	-9.99	-3.18	-10.83	-14.19	-13.86	-16.76	-17.18	-7.44	-16.68	-5.51	-8.67
θ (120°)	-7.39	-12.97	-9.75	-10.11	-5.19	-20.29	-9.24	-2.31	-2.73	-7.63	-6.91	-13.82	-4.96	-7.1	-14.94	-8.18	-6.91	-10.03	-10.09	-8.34	-11.22	-13.4	-17.14	[-0.87]	-7.39
θ (135°)	-10.72	-2.07	-5.85	-13.44	-11.69	-4.04	-6.17	-13.87	-15.62	-9.74	-11.08	-22.8	-7.85	-5.66	-4.67	-4.56	-6.49	-13.29	-7.45	-6.29	-8.55	-17.57	-10.94	-4.58	-10.72
θ (150°)	-6.31	-7.04	-8.95	-14	-18.32	-18.65	-17.02	-15.63	-13.9	-11.09	-17.18	-5.94	-14.66	-11.34	-7.39	-9.57	-13.82	-8.29	-5.36	-7.93	-14.52	-21.32	-11.2	-4.54	-6.31
θ (165°)	-6.36	-6.7	-11.03	-16.79	-9.91	-10.32	-15.52	-18.11	-14.55	-12.69	-14.33	-14.62	-7.48	-5.78	-7.56	-11.13	-14.24	-16.46	-12.61	-8.24	-4.08	-2.01	-2.63	-4.96	-6.36
θ (180°)	-4.24	-6.27	-9.91	-14.27	-19.51	-32.09	-17.02	-10.01	-6.7	-4.9	-3.87	-4.01	-4.53	-4.78	-5.48	-7.82	-13.59	-37.32	-15.55	-10.38	-6.82	-4.96	-3.66	-3.24	-4.24

Ant.	No.2																								
Freq. (MHz)	5300																								
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°)	-16.66	-15.66	-15.34	-14.93	-14.98	-15.68	-15.83	-18.48	-18.55	-20.47	-19.38	-17.11	-14.91	-13.93	-14.26	-15.23	-15.84	-16.68	-19.27	-22.22	-23.46	-20.5	-17.63	-16.58	-16.66
θ (15°)	-17.12	-31.61	-14.79	-9	-7.49	-7.69	-8.21	-6.93	-6.37	-7.05	-10.28	-16.44	-26.41	-15.26	-13.01	-12.11	-8.96	-6.14	-4.67	-3.56	-2.99	-4.38	-7.61	-11.17	-17.12
θ (30°)	-10.14	-9.91	-11.66	-22.17	-20.06	-13.94	-13.84	-16.59	-16.97	-17.97	-10.19	-9.04	-9.16	-9.71	-8	-5.34	-4.09	-2.91	-2.27	-3.51	-2.7	0.25	-2.08	-5.46	-10.14
θ (45°)	-2.06	-10.97	-11.15	-4.51	-2.9	-6.26	-12.57	-15.25	-10.2	-3.84	-1.7	-2.71	-3.98	-2.06	-5.43	-10.9	-14.58	-4.59	-1.29	-0.04	-3	0.26	0.93	-0.38	-2.06
θ (60°)	-7.8	-3.38	-15.48	-3.66	-3.06	-5.04	-8.76	-7.59	-5.42	-0.84	0.43	-1.7	-2.13	1.29	-3.14	0.21	1.92	2.07	-0.54	-2.17	-0.9	-3.14	-2.09	-3.81	-7.8
θ (75°)	-6.27	-4.29	-21.4	-11.06	-0.04	-3.01	-4.33	-3.54	-1.19	0.75	0.48	-1.44	2.03	1.72	-0.67	3.3	4.41	4.61	2.27	-1.75	-4.19	-5.27	-0.67	-0.7	-6.27
θ (90°)	-4.86	-2.64	-11.18	-5.55	-3.66	-6.51	3.55	-0.44	-9.94	-2.47	-0.45	-2.27	-1.17	1.09	-1.02	5.05	5.1	[5.36]	2.69	-0.83	-9.31	-3.33	2.2	2.52	-4.86
θ (105°)	-5.98	-7.22	-17.58	-8.51	-1.05	-2.77	3.66	-4.68	-7.88	-17.11	-4.03	-6.35	-2.95	-0.16	-1.84	0.85	3.22	3.47	-1.01	-6.45	-15.59	-9.81	1.88	0.55	-5.98
θ (120°)	-7.04	-9.92	-26.4	-15.11	-4.44	-12.09	-11.74	-16.27	-4.18	-7.26	-3.69	-8.16	-2.56	-0.8	0.26	0.04	0.55	2.14	0.16	-3.73	-14.31	-10.54	-2	-1.95	-7.04
θ (135°)	-6.15	-8.43	-9.03	-9.6	-7.37	-3.27	-0.9	-11.07	-6.52	-6.5	-5.7	-8.34	-4.31	-1.78	-2.96	-0.11	0.37	-0.09	-1.85	-4.91	-8.24	-8.26	-10.05	-12.67	-6.15
θ (150°)	-8.15	-3.43	-6.79	-14.51	-4.84	-4.53	-3.85	-2.21	-3.81	-11.18	-7.02	-6.81	-6.93	-1.52	-2.74	-8.39	-8.98	-9.67	-12.84	-12.16	-10.92	-12.09	-11.86	-11.03	-8.15
θ (165°)	-19.77	-11.07	-6.12	-7.48	-17.06	-16.08	-12.98	-23.13	-10.97	-6.88	-7.38	-12.86	-16.32	-11.37	-7.5	-5.64	-5.54	-6.38	-6.83	-5.89	-5.4	-7.32	-12.7	-12.86	-19.77
θ (180°)	-21.29	-14.14	-10.32	-8.02	-5.76	-4.18	-3.26	-2.85	-3.86	-6.2	-10.17	-17	-38.5	-14.84	-9.94	-7.1	-5.44	-4.51	-4.51	-5.5	-6.45	-8.01	-10.57	-16.77	-21.29
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°)	-24.99	-26.87	-32.98	-27.74	-23.14	-19.35	-17.44	-16.17	-15.76	-15.3	-14.99	-16.16	-17.68	-20.08	-22.36	-20.36	-16.16	-15.71	-14.92	-14.34	-13.37	-14.86	-17.66	-19.77	-24.99
θ (15°)	-12.14	-9.02	-7.74	-8.88	-10.04	-9.87	-11.61	-16.88	-19.48	-9.93	-6.51	-4.43	-3.45	-4.32	-7.33	-10.31	-10.11	-10.71	-11.93	-16.38	-34.65	-22.65	-23.78	-20.23	-12.14
θ (30°)	-16.17	-20.33	-15.95	-17.93	-21.17	-12.49	-9.75	-8.88	-7.33	-4.6	-2.59	-2.67	-2.84	-6.92	-14.5	-5.64	-5.46	-8.47	-17.02	-13.18	-16.76	-14.3	-12.13	-25.33	-16.17
θ (45°)	-11.82	-13.67	-9.53	-9.4	-11.03	-13.84	-14.88	-9.41	-8.56	-4.28	-5.26	-9.47	-7.04	-22.25	-22.26	-20.85	-14.71	-17.62	-26.1	-13.39	-11.85	-21.03	-11.24	-17.61	-11.82
θ (60°)	-9.5	-20.74	-14.54	-7.25	-13.08	-9.46	-7.38	-6.56	-4.76	-8.05	-6.64	-19.06	-13.26	-29.26	-19.75	-12.8	-25.23	-20.99	-18.5	-17.84	-12.1	-8.76	-16.93	-11.12	-9.5
θ (75°)	-15.5	-23.25	-16.77	-12.14	-15.94	-9.83	-10.03	-15.08	-8.54	-5.15	-6.9	-9.17	-19.04	-5.76	-9.87	-7.95	-14.73	-21.01	-18.9	-17.73	-12.21	-14.27	-8.95	-18.79	-15.5
θ (90°)	-4.26	-14.38	-11.41	-17.43	-9.27	-10.81	-13.91	-10.37	-5.54	-7.91	-5.41	-7.56	-20.78	-4.29	-16.1	-25.5	-15.02	-20.73	-15.03	-19.83	-13.41	-21.15	-13.57	-9.32	-4.26
θ (105°)	-4.12	-11.83	-21.51	-10.45	-8.44	-12.59	-7.31	-7.39	-14.98	-14.86	-19.12	-18.6	-6.48	-5.62	-7.27	-4	-17.13	-13.08	-10.68	-13.77	-14.98	-7.56	-12	-8.64	-4.12
θ (120°)	-5.2	-11.41	-13.38	-9.7	-7.88	-11.36	-6.2	[-2.26]	-3.54	-7.56	-9.41	-17.05	-2.65	-8.81	-8.58	-3.84	-5.9	-12.81	-11.72	-13.1	-12.94	-10.18	-11.55	-6.32	-5.2
θ (135°)	-12.45	-3.64	-5.43	-19.79	-7.9	-3.36	-8.57	-17.76	-12.99	-11.69	-21.68	-16.63	-8.89	-9.52	-8.52	-5.88	-8.04	-13.4	-7.05	-6.64	-9.57	-16.69	-20.92	-6.58	-12.45
θ (150°)	-9.87	-8.15	-8.69	-16.35	-12.66	-11.54	-10.3	-11.45	-21.95	-13.88	-9.19	-5.05	-16.27	-13.74	-10.09	-23.39	-24.6	-8.84	-4.6	-5.27	-12.43	-23.4	-9.59	-6.62	-9.87
θ (165°)	-7.86	-5.25	-7.01	-12.99	-12.74	-12.9	-18.35	-17.93	-13.91	-12.21	-16.37	-17.17	-7.66	-5.9	-7.67	-10.41	-11.65	-12.6	-17.2	-19.57	-8.98	-4.26	-3.51	-6.3	-7.86
θ (180°)	-3.75	-5.01	-7	-8.91	-10.92	-16.42	-21.4	-17.41	-9.23	-5.95	-4.43	-3.42	-2.85	-3.24	-4.4	-6.52	-10.2	-16.91	-23.92	-13.34	-9.45	-6.74	-4.85	-3.48	-3.75

Ant.	No.2																								
Freq. (MHz)	5600																								
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°)	-10.29	-11.32	-12.42	-11.07	-9.35	-7.67	-6.63	-6.38	-5.99	-7.12	-8.3	-9.6	-11.44	-12.48	-12.73	-11.7	-10.42	-8.9	-8.29	-7.52	-7.38	-7.82	-8.16	-9.07	-10.29
θ (15°)	-7.45	-8.22	-8.82	-10.26	-12.91	-14.16	-11.94	-8.31	-6.33	-5.71	-7.9	-13.62	-21.69	-17.04	-16.65	-12.58	-8.37	-5.65	-3.4	-1.69	-0.38	-0.58	-2.2	-4.31	-7.45
θ (30°)	-6.62	-7.14	-7.5	-9.07	-14.62	-13.68	-12.35	-17.89	-16.95	-8.04	-7.23	-5.29	-7.1	-9.94	-11.63	-20.17	-13.13	-5.18	-2.05	-1.65	-3.05	-2.91	-0.52	-1.82	-6.62
θ (45°)	-8.36	-11.59	-17.29	-4.84	-1.93	-4.78	-8.31	-8.63	-10.2	-5.61	-3.64	-5.63	-4.32	-6.88	-9.72	-7.49	-0.7	0.91	1.78	1.22	-0.75	-3.5	-3.36	-4.42	-8.36
θ (60°)	-3.89	-6.81	-7.21	-9.29	-0.7	-1.14	-7.09	-6.75	-3.17	-8.29	-2.9	-3.88	-1.81	-3.13	-3.37	-2.86	1.16	0.82	-0.46	-2.7	-6.15	-4.17	-1.36	-4.23	-3.89
θ (75°)	-6.21	-6.77	-7.5	-4.91	-2.15	-4.05	-4.62	-4.52	-1.26	-3.33	-2.54	-2.17	1.15	-3.06	0.48	3.5	4.93	4.35	1.49	-3.18	-9.01	-5.42	0.26	1.15	-6.21
θ (90°)	-10.07	-4.96	-17.93	-1.92	-1.32	-10.53	3.45	-2.59	-5.64	-5.41	-1.6	-1.47	-0.68	-2.91	-3.28	2.93	5.08	[5.42]	0.71	-4.06	-10.96	-5.86	0.68	2.03	-10.07
θ (105°)	-11.54	-10.41	-11.54	-2.64	-1.06	-2.3	2.53	-7.96	-9.75	-11	-2.9	-4.2	-2.93	-2.46	-2.53	3.66	5.02	3.17	-1.05	-4.59	-10.7	-3.91	1.22	0.99	-11.54
θ (120°)	-12.79	-16.98	-23.37	-22.54	-3.21	-12.87	-15.16	-10	-6.24	-5.8	-0.71	-8.38	-0.75	0.81	-0.45	0.74	2.03	1.26	0.43	-2.76	-16.39	-11.62	-3.08	-1.44	-12.79
θ (135°)	-10.23	-12.49	-11.6	-11.64	-8.91	-10.45	-6.45	-12.57	-4.19	-4.36	-0.12	-1.61	-0.28	-1.59	-3.1	-3.25	-1.46	-0.39	-1.34	-2.25	-7.09	-11.79	-6.79	-6.22	-10.23
θ (150°)	-14.93	-9.18	-10.23	-27.09	-6.24	-2.26	-1.3	-0.55	-4.27	-21.22	-9.81	-8.86	-3.33	-1.65	-4.14	-4.66	-3.99	-4.63	-6.7	-9.64	-9.31	-9.38	-19.08	-13.88	-14.93
θ (165°)	-17.77	-17.55	-10.14	-6.9	-6.28	-7.16	-7.02	-8.04	-9.56	-11.64	-19.56	-17.51	-19.62	-17.16	-10.46	-6.19	-4.02	-2.9	-1.54	-0.83	-1.01	-2.3	-6.19	-12.05	-17.77
θ (180°)	-16.32	-14.64	-9.94	-6.51	-4.07	-2.43	-1.32	-0.83	-1.31	-2.59	-5.03	-8.57	-15.19	-18.12	-10.16	-6.1	-3.68	-2.23	-1.4	-1.52	-2.45	-3.58	-5.35	-9.08	-16.32
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°)	-8.37	-8.23	-7.63	-7.67	-8.6	-9.89	-12.53	-14.02	-12.7	-11.59	-9.89	-7.99	-7.29	-7.44	-7.74	-7.99	-8.53	-10.06	-11.8	-13.87	-13.19	-11.22	-9.89	-9.44	-8.37
θ (15°)	-16.46	-15.75	-14.12	-13.55	-10.63	-10.3	-13.3	-20.62	-13.59	-7.19	-3.7	-2.93	-4.91	-8.75	-10.6	-11.18	-12.25	-13.94	-18.39	-33.38	-14.55	-10.3	-9.47	-10.81	-16.46
θ (30°)	-16.59	-12.57	-11.78	-7.5	-8.89	-13.01	-15.19	-8.71	-5.18	-5.95	-6.95	-4.12	-5.81	-19.56	-13.56	-15.52	-12.55	-13.03	-20.68	-16.8	-15.73	-12.52	-3.47	-4.81	-16.59
θ (45°)	-7.27	-10.97	-15.72	-22.31	-8.35	-11.93	-17.32	-22.42	-9.7	-8.39	-14.71	-11.33	-10.93	-24.85	-14.31	-8.3	-8.92	-10.9	-10.88	-8.19	-6.37	-12.55	-6.71	-8.17	-7.27
θ (60°)	-15.35	-15.17	-15.81	-6.03	-10.89	-19.17	-11.92	-9.06	-19.66	-5.16	-12.04	-13.45	-16.02	-12.99	-12.63	-14.81	-15.08	-15.21	-12.08	-17.78	-16.22	-11.64	-13.52	-20.59	-15.35
θ (75°)	-16	-12.64	-11.62	-14.01	-18.81	-10.49	-13.82	-17.25	-11.86	-10.07	-7.37	-16.81	-9.8	-9.82	-9.97	-9.68	-9.43	-23.67	-15.77	-12.8	-31.11	-30.73	-16.26	-17.5	-16
θ (90°)	-5	-6.54	-24.38	-12.72	-7.94	-4.7	-5.67	-7.33	-4.28	-5.39	-8.97	-11.49	-12.63	-27.48	-8.22	-17.86	-12.44	-17.81	-15.87	-20.34	-20.24	-22.93	-7.39	-12.19	-5
θ (105°)	-2.42	-3.54	-10.39	-10.81	-10.84	-18.38	-6.66	-5.95	-21.54	-13.29	-9.02	-18.11	-7.16	-15.82	-4.27	-12.53	-8.3	-10.5	-9.9	-13.3	-18.31	-11.8	-9.45	-10.52	-2.42
θ (120°)	-6.17	-5.42	-6.79	-7.96	-7.53	-8.01	-4.57	-5.32	-6.75	-18.18	-10.35	-14.92	[-0.17]	-23.2	-8.31	-3.03	-14.5	-20.02	-15.64	-15.02	-24.96	-8.48	-4.7	-7.41	-6.17
θ (135°)	-10.7	-10.8	-12.34	-12.44	-17.81	-4.73	-11.38	-17.85	-17.92	-6.87	-12.81	-10.35	-37.19	-21.06	-7.09	-9.15	-12.23	-11.49	-12	-12.84	-20.34	-16.87	-8.01	-9.97	-10.7
θ (150°)	-13.74	-9.9	-10.04	-15.09	-7.37	-5.29	-7.61	-11.97	-18.83	-9.16	-7.17	-1.2	-15.14	-13.93	-18.76	-5.09	-8.28	-12.63	-8.65	-6.22	-7.29	-15.36	-8.37	-5.24	-13.74
θ (165°)	-12.75	-14.65	-12.29	-14.28	-16.79	-15.35	-21.24	-18.23	-12.21	-9.44	-10.4	-17.08	-10.92	-10.97	-13.48	-19.22	-24.01	-17.26	-12.83	-8	-5.6	-4.94	-4.4	-5.68	-12.75
θ (180°)	-1.08	-1.95	-3.57	-4.81	-5.66	-7.48	-11.89	-16.59	-11.94	-6.83	-3.68	-2.62	-1.79	-1.4	-2.03	-3.62	-5.62	-8.91	-18.49	-15.74	-9.39	-7.1	-4.34	-1.75	-1.08

Ant.	No.2																									
Freq. (MHz)	5785																									
Polarity	Theta																									
	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
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°)	-12.34	-12.62	-12.82	-13.54	-15.25	-19.64	-21.33	-25.61	-17.79	-15.37	-14.62	-13.64	-12.14	-11.8	-12.54	-13.72	-15.45	-20.74	-20.6	-19.5	-16.21	-14.61	-12.63	-12.15	-12.34	
θ (15°)	-11.06	-16.23	-17.67	-22.96	-27.58	-17.31	-10.57	-7.69	-6.78	-6.92	-8.22	-10.66	-10.55	-7.88	-7.99	-9.84	-10.41	-8.48	-6.98	-7.16	-6.09	-4.32	-4.11	-5.62	-11.06	
θ (30°)	-6.65	-8.36	-10.85	-14.51	-20.35	-16.52	-13.68	-19.18	-22.04	-12.52	-5.91	-3.23	-5.78	-5.32	-8.76	-7.04	-4.59	-3.16	-1.05	0.68	-0.76	-4.06	-1.02	-1.16	-6.65	
θ (45°)	-7.76	-14.72	-17.52	-6.13	-2.85	-5	-3.73	-4.92	-9.73	-2.74	-1.49	-3.81	-2.06	-4.63	-9.28	-1.03	0.79	1.53	0.92	0.67	-0.67	-4.56	-1.74	-2.51	-7.76	
θ (60°)	-5.23	-8.84	-10.44	-9.46	-2.79	-3.96	-8.12	-6.29	-4.91	-3.72	-1.63	-2.36	1.25	-1.56	-3.45	-1.46	1.27	2.41	2.46	0.04	-3.08	-5.37	-1.35	-2.2	-5.23	
θ (75°)	-4.11	-8.83	-6.66	-3.21	-2.17	-9.4	-3.81	-2.53	-2.51	-5.7	-0.51	-1.51	0.38	-3.16	0.22	1.38	2.51	3.28	2.75	-4.2	-4.4	-4.13	0.73	0.19	-4.11	
θ (90°)	-3.45	-4.74	-16.16	0.17	-0.84	-24.55	3.46	-0.95	-6.05	-1.92	0.8	0.01	0.84	-0.54	-2.74	-5.81	3.65	4.15	2.48	-3.89	-8.65	-1.99	0.73	0.54	-3.45	
θ (105°)	-5.5	-15.7	-7.25	0.27	-0.39	-2.04	0.9	-10.12	-3.73	-6.36	-1.58	0.31	-1.85	-2.32	-5.83	0.31	[4.73]	3.6	0.02	-5.78	-6.89	-0.44	2.66	0.59	-5.5	
θ (120°)	-5.78	-12.97	-16.44	-25.69	-4.78	-13.08	-17.62	-10.73	-11.22	-3.17	-0.47	-3.44	-1.23	-0.64	-4.09	-0.69	1.93	1.17	-1.74	-4.11	-11.53	-5.09	-3.88	-1.35	-5.78	
θ (135°)	-12.99	-10.15	-29.04	-11.6	-9.19	-37.68	-10.48	-8.82	-4.64	-3.17	0.98	-0.22	0.39	-0.95	0.11	0.53	-0.31	-1.33	-2.82	-3.52	-5.26	-7.57	-5.64	-6.54	-12.99	
θ (150°)	-11.03	-10.31	-9.29	-15.74	-8.45	-5.61	-4.98	-3.8	-7.39	-14.06	-7.1	-8.91	-0.93	-0.91	-4.78	-3.81	-2.23	-3.31	-7.38	-14.11	-14.11	-10.73	-15.34	-12.4	-11.03	
θ (165°)	-11.97	-8.74	-7.52	-7.25	-8.2	-7.37	-7.35	-10	-17.78	-25.47	-17.1	-13.66	-13.07	-12.43	-8.29	-6	-5.01	-4.08	-2.35	-0.42	0.37	-1	-5.22	-10.96	-11.97	
θ (180°)	-7.36	-9.37	-10.76	-9.78	-7.22	-4.55	-2.95	-2.06	-1.78	-2.22	-3.13	-4.59	-6.5	-8.89	-11.13	-8.63	-5.54	-3.55	-2.54	-1.83	-1.76	-2.17	-2.62	-4.35	-7.36	
Polarity	Phi																									
	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
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°)	-19.44	-16.99	-17.79	-15.36	-13.36	-13.48	-12.51	-13.15	-14.86	-15.28	-17.4	-21.59	-27.97	-23.71	-19.03	-14.56	-11.43	-11.18	-12.37	-11.22	-11.71	-14.32	-18.19	-27.41	-19.44	
θ (15°)	-10.5	-13.06	-23.17	-13.5	-10.97	-10.92	-14.4	-16.86	-13.07	-8	-5.56	-6.95	-12.5	-18.82	-17.79	-22.92	-21.45	-15.83	-19.06	-35.62	-32.27	-15.17	-10.34	-9.57	-10.5	
θ (30°)	-11.86	-15.75	-17.19	-11.79	-9.09	-11.73	-19.31	-9.92	-6.15	-5.15	-5.22	-3.68	-10.05	-23.22	-26.24	-11.32	-8	-9.75	-12.97	-12.66	-8.11	-10.6	-9.05	-4.34	-11.86	
θ (45°)	-6.82	-9.39	-16.58	-26.64	-12.64	-16.6	-21.12	-18.56	-7.04	-9.56	-12.92	-4.92	-17.06	-11.5	-10.72	-9.66	-17.09	-12.07	-10.43	-10.31	-8.65	-9.28	-8.54	-3.42	-6.82	
θ (60°)	-23.25	-10.6	-9.87	-4.68	-18.91	-14.41	-17.42	-14.04	-15.44	-7.19	-8.62	-11.28	-9.66	-11.22	-13.87	-16.4	-16.24	-17.45	-29.38	-21.53	-18.36	-23.33	-23.79	-10.33	-23.25	
θ (75°)	-17.6	-12.37	-10.9	-12.88	-9.48	-24.45	-14.94	-20.25	-12.77	-6.64	-4.73	-12.52	-7.8	-13.4	-10.84	-22.43	-14.71	-18.36	-13.69	-12.31	-15.37	-21.74	-14.1	-13.93	-17.6	
θ (90°)	-7.12	-2.87	-12.78	-8.88	-9.64	-6	-5.55	-9.41	-5.24	-5.61	-6.69	-10.5	-7.09	-6.86	-16.62	-18.67	-18.57	-15.13	-16.94	-16.82	-14.2	-32.18	-6.95	-8.65	-7.12	
θ (105°)	-2.13	[0.36]	-10.05	-12.33	-15.71	-12.69	-6.15	-7.62	-12.19	-9.26	-10.43	-17.68	-14.51	-12.45	-9.84	-13.94	-8.16	-12.1	-13.31	-11.4	-17.91	-12.55	-5.74	-7.93	-2.13	
θ (120°)	-2.86	-3.19	-3.82	-10.05	-8.47	-4.88	-8.4	-9.83	-7.44	-22.54	-7.32	-14.73	-1.45	-12.33	-10.55	-2.02	-10.29	-11.65	-10.23	-8.51	-13.11	-9.88	-3.43	-10.31	-2.86	
θ (135°)	-10.29	-12.75	-14.33	-14.28	-14.95	-6.93	-15.56	-12.69	-10.16	-6.26	-7.85	-8.98	-11.36	-15.46	-10.12	-6.97	-8.79	-11.04	-13.28	-13.46	-31.37	-19.25	-6.23	-10.83	-10.29	
θ (150°)	-16.11	-10.82	-8.29	-12.97	-11.19	-5.77	-6.37	-12.46	-14.16	-7.36	-2.43	-1.49	-12.56	-10.38	-9.79	-3.96	-8.37	-18.76	-17.86	-11.66	-9.07	-14.84	-8.07	-3.18	-16.11	
θ (165°)	-10.98	-13.33	-11.91	-10.92	-9.78	-11.53	-18.43	-15.01	-15.61	-14.3	-15.49	-15.65	-11.98	-11.2	-10.56	-14.13	-32.26	-13.83	-11.09	-9.08	-5.48	-3.38	-3.04	-3.71	-10.98	
θ (180°)	-1.74	-2.77	-4.02	-4.47	-4.21	-4.57	-5.71	-7.3	-8.6	-7.62	-5.59	-4.45	-3.91	-3.14	-2.59	-3	-4.21	-5.51	-9.29	-13.78	-10.74	-8.97	-6.32	-2.61	-1.74	

Ant.	No.3																								
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°)	-10.32	-10.81	-11.61	-12.24	-12.1	-11.52	-10.84	-9.5	-8.33	-7.56	-7.54	-8.06	-8.63	-9.14	-10.07	-11.42	-12.19	-10.91	-9.26	-8.21	-7.95	-9.27	-9.24	-9.62	-10.32
θ (15°)	-13.99	-21.21	-29.89	-17.05	-13.41	-8.47	-6.91	-6.66	-7.21	-8.26	-8.6	-7.14	-5.6	-5.23	-6.4	-8.7	-9.54	-7.86	-6.43	-5.67	-5.77	-6.5	-7.78	-9.47	-13.99
θ (30°)	-10.22	-10.09	-9.45	-8.44	-7.25	-6.47	-6.49	-7.22	-7.44	-8.84	-9.01	-7.06	-4.38	-3.06	-3.61	-5.41	-5.78	-3.98	-2.75	-2.6	-3.26	-4.71	-6.19	-7.97	-10.22
θ (45°)	-1.84	-1.19	-2.33	-4.97	-7.32	-6.66	-5.53	-5.04	-5.32	-6.57	-8.04	-6.68	-4.27	-3.45	-4.09	-4.7	-3.33	-1.3	-0.3	-0.74	-2.52	-5.33	-6.69	-4.99	-1.84
θ (60°)	1.84	1.62	-1.53	-8.38	-13.15	-12.05	-11.45	-11.07	-9.53	-9.81	-15.65	-7.27	-2.13	-0.68	-1.41	-2.81	-1.97	0.11	1.05	0.46	-1.02	-2.77	-1.76	0.07	1.84
θ (75°)	1.48	-0.54	-8.17	-19.02	-10.45	-11.97	-11.08	-12.34	-9.5	-4.91	-6.07	-14.58	-5.1	-2.69	-1.9	-2.71	-1.79	0.32	1	0.53	0.21	0.71	1.07	1.12	1.48
θ (90°)	1.79	-0.68	-13.97	-3.28	-1.01	-3.43	-8.81	-12.86	-13.19	-6.55	-4.27	-8.32	-3.6	-2.63	-2.18	-1.56	-3.78	-2.95	-1.01	-0.78	0.17	1.99	1.31	0.18	1.79
θ (105°)	-0.2	-3.53	-2.46	-0.38	-0.71	-2.72	-5.72	-4.64	-6.52	-8.87	-5.54	-13.99	-5.74	-3.85	-2.36	-0.12	-0.73	-1.42	-0.18	1.48	[2.61]	2.51	1.52	1.19	-0.2
θ (120°)	-2.13	-1.54	-1.17	-1.48	-1.54	-2.51	-4.35	-5.67	-8	-10.62	-5.45	-6.48	-8.91	-8.76	-3.63	-1.6	-0.93	0.16	1.43	2.04	0.55	-2.92	-2.96	-2.13	
θ (135°)	0.34	1.07	0.05	-1.65	-2.65	-4.8	-10.18	-14.42	-17.04	-11.31	-7.46	-6.49	-4.93	-5.36	-8.37	-5.03	-1.7	0.03	0.56	0.41	-1.06	-3.81	-4.24	-2.2	0.34
θ (150°)	0.83	0.69	-0.04	-1.36	-3.16	-5.61	-8.66	-12.73	-18.98	-19.79	-14.9	-15.2	-17.41	-12.15	-7.9	-4.96	-2.8	-1.79	-2.05	-3.23	-4.2	-3.29	-0.94	0.4	0.83
θ (165°)	-10.44	-7.17	-5.82	-5.92	-6.84	-8.5	-9.27	-8.76	-8.87	-10.18	-11.93	-12.24	-10.98	-9.59	-9.15	-9.03	-8.54	-6.88	-5.6	-4.72	-4.72	-5.72	-8.18	-10.92	-10.44
θ (180°)	-6.15	-5.6	-5.37	-5.54	-6.26	-8.13	-11.07	-16.66	-18.37	-12.14	-8.56	-6.54	-5.32	-4.72	-4.75	-5.48	-6.86	-9.01	-12.76	-20.59	-16.22	-11.69	-8.89	-7.23	-6.15
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°)	-10.1	-9.07	-8.09	-7.88	-8.91	-11.28	-15.45	-20.91	-19.52	-14.69	-11.37	-9.17	-7.76	-6.66	-6.07	-6.08	-6.64	-7.67	-9.05	-11	-12.89	-12.64	-11.48	-10.39	-10.1
θ (15°)	-12.89	-10.95	-10.29	-10.08	-10.53	-11.1	-15.46	-19.39	-12.77	-9.14	-7.66	-7.34	-7.03	-5.73	-4.33	-3.7	-4.02	-5.52	-7.83	-10.64	-15.06	-23.19	-27.58	-19.17	-12.89
θ (30°)	-12.53	-9.63	-8.19	-8.82	-11.45	-16.36	-21.26	-16.41	-12.14	-8.52	-5.7	-4.21	-4.33	-5.46	-5.18	-4.26	-4.6	-6.48	-9.05	-10.19	-9.74	-10.63	-15.34	-23.92	-12.53
θ (45°)	-12.65	-11.54	-14.33	-22.14	-18.07	-18.97	-14.04	-10.63	-9.87	-11.91	-10.93	-6.73	-5.56	-7.16	-9.43	-10.31	-11.83	-14.9	-13.49	-10.25	-9.43	-11.05	-16.91	-23.51	-12.65
θ (60°)	-8.88	-7.92	-10.1	-20.87	-12.62	-10.46	-11.68	-13.72	-14.73	-13.8	-10.12	-7.04	-6.28	-6.79	-7.38	-9.52	-12.9	-19.8	-16.47	-8.97	-7.29	-9.18	-16.83	-13.53	-8.88
θ (75°)	-6.17	-7.52	-10.76	-6.96	-6.56	-11.24	-19.06	-12.82	-10.24	-11.49	-10.21	-7.89	-10.1	-10.2	-6.45	-7.22	-12.37	-17.57	-14.1	-9.4	-8.71	-12.51	-14.38	-9.14	-6.17
θ (90°)	-8.39	-13.45	-8.45	-4.78	-5.66	-9.84	-16.9	-24.34	-19.18	-21.22	-15.78	-7.69	-6.14	-10.1	-10.54	-7.92	-11.15	-23.31	-21.07	-13.93	-10.95	-9.8	-8.01	-6.67	-8.39
θ (105°)	-11.61	-18.45	-11.99	-10.8	-9.14	-9.12	-12.25	-9.32	-5.33	-5.62	-10.65	-16.73	-18.42	-28.07	-15.06	-15.39	-26.29	-26.57	-23.69	-19.32	-12.02	-6.86	-3.95	-4.15	-11.61
θ (120°)	-13.23	-13.2	-22.96	-17	-10.39	-6.18	-5.83	-7.51	-5.1	-3.28	-6.75	-20.02	-15.67	-22.89	-22.94	-14.52	-10.62	-9.28	-11.96	-17.04	-6.67	-3.7	-4.42	-9.89	-13.23
θ (135°)	-12.91	-12.19	-9.8	-6.71	-4.28	-3.52	-5.23	-8.53	-6.4	-4.44	-7.29	-20.96	-16.05	-12.24	-12.35	-15.12	-18.68	-17.55	-13.04	-9.25	-6.75	-5.99	-7.39	-10.18	-12.91
θ (150°)	-28.79	-23.77	-12.42	-8.41	-7	-7.18	-9.25	-14.8	-25.25	-18.65	-18.47	-16.07	-12.15	-10.91	-11.09	-11.68	-13.26	-15.25	-12.91	-8.23	-6.1	-7.47	-11.92	-21.72	-28.79
θ (165°)	-31.55	-15.57	-8	-4.3	-2.1	[-0.93]	-1.07	-2.45	-4.4	-6.38	-7.44	-7.33	-6.86	-6.6	-6.42	-6.05	-5.79	-5.7	-6.56	-8.62	-12.63	-19.74	-20.38	-18.44	-31.55
θ (180°)	-12.17	-15.07	-17.78	-15.29	-11.28	-8.23	-5.54	-3.46	-3.06	-3.79	-5.21	-7.52	-10.76	-16.19	-22.46	-14.27	-9.52	-6.68	-4.93	-3.78	-4.17	-5.41	-6.78	-8.73	-12.17

Ant.	No.3																								
Freq. (MHz)	5200																								
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°)	-7.18	-6.99	-7.13	-7.8	-8.45	-9.23	-9.65	-11.4	-12.56	-11.18	-9.64	-8.05	-6.89	-6.23	-5.88	-6.04	-6.71	-7.91	-9.42	-10.32	-10.22	-8.53	-7.24	-6.38	-7.18
θ (15°)	-6.45	-8.69	-11.61	-15.62	-15.73	-12.02	-8.69	-6.82	-6.33	-8.17	-13.42	-14.94	-7.63	-4.01	-2.84	-3.1	-3.98	-5.02	-5.2	-5.13	-5.15	-5.13	-5.07	-4.9	-6.45
θ (30°)	-11.14	-13.78	-19.63	-11.99	-7	-4.22	-2.57	-2.58	-5.84	-6.58	-5.71	-8.69	-9.99	-2.16	-1.52	-4.31	-7.44	-8.49	-7.6	-6.64	-6.52	-7.05	-8.56	-10.04	-11.14
θ (45°)	-5.87	-8.47	-11.65	-11.55	-5.45	-1.78	-1.8	-4.28	-5.6	-14.68	-14.11	-10.03	-13.09	-4.16	-3.95	-5.6	-5.94	-5.41	-3.34	-0.58	-0.62	-4.06	-4.16	-4.21	-5.87
θ (60°)	-5.54	-5.22	-10.48	-4.81	-3.43	-1.45	-2.51	-2.48	-6.05	-12.44	-15.81	-12.54	-5.26	-4.6	-1.23	-1.69	-8.49	-6.11	-0.57	2.54	3.45	0.45	-3.04	-1.57	-5.54
θ (75°)	-2.22	-4.33	-0.75	-3.05	-0.74	-7.77	-5.33	-5.47	-1.41	-6.71	-7.25	-2.2	-2.79	-0.64	-1.05	-8.31	-9.2	-2.31	2.41	4.72	[5.87]	2.11	-2.03	0.1	-2.22
θ (90°)	-3.32	-2.78	-0.47	-11.49	-15.69	-3.43	1.61	-11	-2.81	-8.16	-13.11	-2.66	-1.03	1.11	0.67	-4.31	-5.95	-1.69	1.17	4.19	5.69	3.76	1.07	0.63	-3.32
θ (105°)	-5.59	-9.29	-5.52	-5.04	-12.3	-3.42	2.32	-4.35	-6	-8.06	-8.14	-5.14	-7.54	1.37	-1.15	-8.14	-5.48	-2.81	0.65	3.58	3.67	2.14	-0.78	1.07	-5.59
θ (120°)	-4.56	-2.55	-1.49	-5	-5.98	-7.12	-7.44	-8.17	-20.78	-13.63	-9.43	-6.15	-8.42	0.66	-0.05	-7.89	-8.1	-1.01	0.71	2.37	2.29	0.77	-0.28	-1.54	-4.56
θ (135°)	-1.68	-2.22	-5.2	-7.43	-13.54	-14.9	-15.69	-9.55	-8.86	-10.39	-9.68	-11.43	-4.08	-3.9	-8.2	-15.58	-10.35	-4.03	-1.02	1.04	2.16	0.92	-1.96	-5.14	-1.68
θ (150°)	-4.28	-5.36	-9.8	-7.13	-8.18	-12.87	-16.9	-11.87	-10.87	-10.5	-8.66	-16.4	-8.77	-5.64	-14.95	-10.4	-3.63	-1.52	-0.8	-0.08	-1.3	-3.76	-6.49	-7.4	-4.28
θ (165°)	-16.19	-19.12	-32.07	-16.74	-12.48	-10.37	-8.83	-8.81	-10.47	-13.28	-15.08	-15.22	-14.1	-9.89	-4.91	-1.69	-1.13	-2.05	-3.26	-5.29	-7.63	-10.96	-16.93	-18.12	-16.19
θ (180°)	-8.41	-6.94	-6.27	-6.46	-7.13	-8.21	-10.29	-14.93	-22.73	-19.28	-13.66	-10.31	-8.04	-6.87	-6.36	-6.4	-6.77	-8.24	-10.31	-14.92	-20.99	-31.87	-17.72	-12.78	-8.41
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°)	-11.96	-12.23	-10.84	-10.71	-10.68	-10.07	-9.01	-9.11	-8.68	-8.25	-8.65	-9.21	-9.92	-11.54	-12.57	-11.51	-10.1	-8.18	-7.19	-7.15	-6.63	-7.27	-8.68	-10.62	-11.96
θ (15°)	-18.65	-13.24	-10.56	-8.63	-6.95	-6.76	-7.37	-9.01	-16.66	-18.38	-14.52	-14.7	-12.52	-11.72	-15.3	-23.07	-26.55	-18.19	-15.98	-11.89	-9.18	-8.04	-8.1	-10.49	-18.65
θ (30°)	-11.77	-12.2	-9.99	-10.79	-8.8	-9.78	-11.07	-10.8	-9.8	-11.68	-20.12	-15.7	-15.09	-6.51	-8.73	-11.4	-10.84	-12.96	-15.78	-11.92	-12.81	-23.66	-7.62	-5.11	-11.77
θ (45°)	-19.08	-5.94	-8.46	-6.04	-14.24	-25.2	-10.05	-5.56	-4.04	-2.25	-11.28	-8.52	-12.04	-14.35	-15.86	-15.41	-20.23	-26.96	-25.15	-22.4	-17.85	-19.41	-8.77	-4.72	-19.08
θ (60°)	-8.21	-5.93	-10	-12.93	-7.87	-8.71	-13.64	-8.6	-14.22	-5.79	-3.65	-7.21	-8.83	-10.47	-16.01	-10.15	-16.94	-21.14	-12.41	-11.77	-11.98	-15.13	-17.7	-4.67	-8.21
θ (75°)	-6.05	-21.36	-4.25	-12.85	-9.05	-28.43	-10.47	-16.02	-10.97	-13.67	-14.45	-11.29	-23.48	-18.57	-17.7	-10.85	-17.68	-12.05	-11.55	-11.41	-14.63	-5.46	-10.14	-10.15	-6.05
θ (90°)	-6.47	-12.1	[-1.86]	-7.85	-8.71	-10.58	-6.93	-7.82	-6.79	-7.78	-13.38	-9.88	-13.54	-8.39	-16.53	-14.99	-9.45	-12.02	-14.88	-26.45	-13.61	-8.17	-17.13	-3.39	-6.47
θ (105°)	-17.38	-13.07	-11.75	-11.67	-10.8	-15.91	-7.44	-3.1	-6.37	-25.49	-11.75	-5.88	-18.11	-10.58	-19.15	-12.85	-10.86	-8.73	-14.62	-12.1	-15.38	-14.6	-14.28	-7.21	-17.38
θ (120°)	-8.88	-9.98	-11.84	-11.46	-8.24	-7.34	-7.24	-9.82	-13.05	-9.23	-10.22	-8.02	-13.16	-15.81	-18.35	-19.4	-20.56	-13.94	-18.06	-18.67	-11.11	-10.96	-9.89	-5.92	-8.88
θ (135°)	-8.7	-6.44	-9.13	-15.63	-9.58	-7.77	-4.83	-5.54	-24.19	-13.04	-5.92	-7.7	-9.72	-9.72	-14.12	-26.45	-10.03	-9.33	-11.87	-16.32	-10.07	-5.89	-15.96	-13.88	-8.7
θ (150°)	-12.76	-13.26	-10.09	-9.91	-19.16	-19.83	-16.74	-18.91	-8.39	-15.87	-6.93	-9.71	-15.04	-11.18	-4.86	-10.01	-10.16	-7.51	-9.6	-11.77	-6.99	-6.91	-7.52	-4.85	-12.76
θ (165°)	-11.92	-20.47	-23.65	-28.67	-16.93	-11.9	-11.56	-11.77	-13.87	-30.47	-13.9	-9.05	-7.02	-5.26	-6.04	-9.41	-10.03	-7.64	-6.7	-6.58	-6.22	-6.09	-7.3	-8.93	-11.92
θ (180°)	-8.83	-11.59	-19.26	-19.13	-14.08	-10.19	-7.88	-6.55	-5.52	-5.61	-6.03	-7.17	-9.31	-12.27	-16.82	-27.17	-18.28	-12.55	-10.67	-9.75	-7.85	-7.43	-7.87	-7.87	-8.83

Ant.	No.3																								
Freq. (MHz)	5300																								
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°)	-8.77	-8.42	-8.25	-7.76	-7.28	-7.45	-8.32	-8.95	-9.67	-10.46	-10.69	-9.97	-8.82	-7.85	-7.17	-6.71	-6.26	-6.35	-6.48	-6.7	-7.37	-7.69	-7.5	-7.14	-8.77
θ (15°)	-5.83	-7.35	-10.55	-16.14	-23.42	-24.87	-13.45	-8.7	-7.68	-9.19	-13.93	-10.57	-6.87	-5.91	-6.92	-9.07	-10.05	-7.92	-5.57	-4.39	-4.31	-4.59	-5.19	-5.38	-5.83
θ (30°)	-9.38	-9.91	-13.05	-8.21	-5.68	-4.35	-4.12	-4.97	-6.37	-6.21	-7.37	-13.18	-10.54	-4.45	-6.16	-9.67	-13.4	-10.53	-8.53	-7.68	-6.29	-6.38	-5.4	-5.66	-9.38
θ (45°)	-4.78	-3.97	-7.43	-7.71	-7.68	-5.14	-2.9	-3.81	-3.97	-11.69	-8.53	-6.87	-10.34	-3.7	-3.74	-4.44	-2.83	-3.52	-2.98	-2.83	-3.06	-8.97	-7.83	-6.11	-4.78
θ (60°)	-4.02	-2.53	-8.57	-4.07	-4.46	-1.08	-0.4	-1.35	-7.93	-27.16	-16.12	-6.77	-2.18	-2.53	0.53	-1.21	-6.71	-6.84	-1.81	1.25	2.48	0.33	-5.93	-0.51	-4.02
θ (75°)	0.91	-2.13	0.88	-4.71	-0.15	-6.08	-6.97	-4.61	-2.42	-14.99	-7.74	-1.48	-4.14	-0.11	1.45	-3.84	-9.56	-0.96	3.19	4.4	4.81	2.93	-7.17	-0.33	0.91
θ (90°)	0.03	-3.53	1.96	-7.56	-11.27	-8.39	0.11	-6.08	-5.47	-8.68	-11.08	-2.86	-3.88	1.79	1	-1.96	-6.44	-0.44	1.71	4.76	[5.23]	4.21	-1.37	-1.66	0.03
θ (105°)	-2.24	-15.26	-2.87	-7.43	-10.23	-4.25	2.46	-4.86	-6.35	-9.07	-4.84	-8.05	-4.87	1.96	-0.55	-7.15	-6.53	-0.87	2.01	4.31	4.23	1.59	-0.74	-1.53	-2.24
θ (120°)	-6.33	-6.67	-3.37	-6.2	-7.62	-7.02	-6.16	-6.41	-19.17	-16.94	-7.65	-7.25	-4.98	0.89	-0.09	-7.44	-8.64	-2.01	1.28	2.79	2.32	-0.17	-1.04	-1.83	-6.33
θ (135°)	-3.39	-4.19	-5.32	-7.82	-11.35	-10.45	-19.07	-9.31	-7.36	-10.23	-6.66	-18.69	-1.65	-4.84	-8.27	-17.24	-9.16	-4.44	-0.5	1.61	2.46	1.73	-0.99	-4.99	-3.39
θ (150°)	-5.58	-6.1	-13.59	-9.48	-9.62	-12.37	-13.24	-9.65	-9.87	-7.03	-6.34	-17.43	-7.01	-6.05	-20.24	-12.2	-3.91	-3.21	-2	0.05	-0.07	-2.27	-6.29	-9.77	-5.58
θ (165°)	-20.6	-15.73	-19.89	-15.92	-12.62	-10.99	-9.65	-10.5	-14.12	-17.46	-17	-16.07	-16.89	-9.99	-3.63	-1.17	-0.78	-1.47	-2.12	-2.37	-3.7	-6.36	-11.76	-18.89	-20.6
θ (180°)	-8.45	-6.89	-5.9	-5.76	-6.38	-7.2	-7.7	-8.06	-9.42	-10.84	-11.24	-10.38	-8.64	-7.54	-6.66	-5.75	-5.59	-6.03	-7.1	-8.92	-10.75	-11.88	-12.39	-11.25	-8.45
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°)	-8.33	-9.12	-10.97	-12.29	-12.53	-11.84	-11.13	-9.32	-8.38	-7.58	-6.96	-6.72	-6.86	-7.02	-7.51	-8.5	-8.87	-8.63	-8.02	-7.73	-8.26	-7.84	-7.94	-7.77	-8.33
θ (15°)	-18.78	-15.11	-9.52	-7.89	-7.03	-5.07	-5.03	-8.02	-17.97	-14.07	-7.99	-7.54	-8.65	-9.54	-11.37	-13.89	-14.19	-12.44	-13.97	-20.15	-16.71	-10.86	-9.14	-9.67	-18.78
θ (30°)	-17.57	-14.89	-10.07	-8.73	-9.24	-10.28	-10.21	-6.91	-4.95	-8.55	-17.11	-12.24	-19.06	-7.86	-8.8	-11.32	-11.76	-16.19	-18.77	-13.5	-11.83	-17.95	-10.83	-6.07	-17.57
θ (45°)	-23.25	-5.79	-8.43	-6.54	-11	-14.39	-13.48	-5.42	-3.08	[-2.09]	-11.63	-8.21	-9.77	-18.04	-19.82	-11.19	-13.09	-12.08	-12.75	-15.64	-22.12	-20.89	-10.99	-3.51	-23.25
θ (60°)	-9.88	-5.6	-11.95	-11.22	-12.14	-8.91	-10.21	-9.91	-19.49	-3.92	-4.14	-6.86	-11.56	-12.8	-17.48	-9.3	-14.87	-10.07	-9.22	-11.2	-14.16	-14.24	-12.44	-5.31	-9.88
θ (75°)	-6.3	-23.64	-3.98	-8.06	-7.27	-21.67	-10.99	-19.97	-9.86	-20.18	-12.44	-8.84	-11.72	-24.44	-10.92	-10.14	-9.7	-12.16	-12.97	-14.24	-18.79	-8.07	-6.36	-7.09	-6.3
θ (90°)	-5.76	-20.77	-2.38	-4.86	-4.68	-7.7	-6.17	-9.66	-8.8	-7.42	-13.77	-6.71	-14.36	-9.98	-28.4	-15.16	-10.52	-21.86	-18.78	-17.84	-22.02	-9.29	-12.11	-6.02	-5.76
θ (105°)	-12.26	-15.95	-9.94	-20.21	-8.71	-18.4	-6.03	-2.65	-5.43	-25.42	-10.14	-4.55	-11.29	-9.51	-12.44	-13.1	-32.96	-13.2	-13.31	-15.58	-20.26	-10.11	-15	-6.82	-12.26
θ (120°)	-10.16	-11.57	-10.14	-25.38	-9.94	-4.48	-5.67	-10.98	-22.57	-10.25	-8.47	-8.28	-16.2	-10.32	-27.56	-18.22	-13.86	-13.36	-16.7	-13.79	-10.19	-15.43	-15.29	-5.37	-10.16
θ (135°)	-13.79	-6.49	-9.36	-14.32	-9.96	-5.94	-2.16	-2.93	-13.82	-13.19	-5.28	-16.69	-6.49	-10.3	-16.18	-15.38	-10.6	-10.98	-11.11	-14.16	-15.5	-12.07	-16.12	-18.56	-13.79
θ (150°)	-12.02	-12.14	-8.68	-10.83	-18.26	-14.62	-15.23	-18.68	-8.15	-16.09	-5.23	-14.64	-8.06	-12.13	-8.28	-9.97	-8.48	-4.96	-7.65	-14.22	-9.78	-8.52	-9.99	-5.5	-12.02
θ (165°)	-9.19	-13.65	-24.09	-16.41	-14.46	-12.36	-12.07	-17.49	-25.82	-13.42	-7.99	-7.45	-8.21	-5.74	-4.53	-5.31	-4.79	-3.83	-4.4	-6.16	-6.57	-6.26	-7.59	-9.25	-9.19
θ (180°)	-4.82	-6.26	-9.16	-9.66	-9.55	-8.85	-7.13	-7.09	-6.01	-5.36	-6	-6.6	-7.19	-8.03	-9.1	-10.14	-11.7	-11.38	-10.05	-9.02	-7.45	-6.15	-5.68	-4.91	-4.82

Ant.	No.3																								
Freq. (MHz)	5600																								
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°)	-14.61	-13.05	-12.2	-11.96	-11.62	-12.8	-13.96	-17.34	-21.48	-30.83	-19.46	-15.81	-14.4	-13.28	-12.17	-11.95	-12.31	-12.9	-14.84	-15.51	-17.96	-20.88	-21.03	-18.1	-14.6
θ (15°)	-8.36	-8.42	-10.8	-13.87	-9.42	-5.58	-4.1	-4.67	-6.76	-10.87	-20.1	-18.35	-9.2	-5.73	-5.28	-6.17	-6.58	-6.47	-6.35	-5.91	-5.86	-5.63	-6.08	-7.05	-8.36
θ (30°)	-4.91	-8.3	-16.94	-12.73	-4.96	-3.27	-4.75	-5.67	-4.79	-5.11	-8.59	-18.93	-6.75	-2.92	-6.82	-5.39	-2.25	-3.88	-7.57	-8.58	-9.06	-8.04	-3.65	-1.32	-4.91
θ (45°)	-5.08	-6.75	-5.26	-10.61	-2.06	-2.27	-3.77	-4.83	-7.46	-8.95	-8.51	-13.41	-7.76	-2.78	-1.58	-0.8	-7.23	-3.7	-1.21	-1.87	-2.84	-2.51	-6.31	-6	-5.08
θ (60°)	-3.51	-4.17	-2.41	-4.68	-5.11	-3.6	-3.26	-6.19	-10.81	-12.69	-17.53	-4.35	-8.94	-1.14	-0.21	-2.71	-8.99	-2.64	0.89	3.55	2.17	-2.33	-6.23	-7.62	-3.51
θ (75°)	-4.48	-0.67	-1.06	-4.72	-2.41	-3.53	-7.93	-5.21	-4.34	-6.07	-16.44	-1.53	-0.36	-0.07	1.54	-4.28	-9.54	-10.51	1.9	4.46	2.11	-0.82	-7.45	-9.17	-4.48
θ (90°)	-1.56	-0.89	2.34	-0.85	-8.61	-2.36	3.08	-1.46	-1.24	-2.13	-18.52	-3.92	-3.01	1.65	2.7	-0.79	-9.5	-6.14	3.17	[5.69]	4.46	0.63	-2.24	-3.97	-1.56
θ (105°)	-3.81	-2.04	0.65	-5.71	-15.32	-3.88	2.73	-2.94	-9.3	-2.73	-6.9	-2.54	-0.7	0.32	-0.55	-7.35	-8.79	-5.42	2.16	4.18	1.64	-1.14	0.67	0.85	-3.81
θ (120°)	-3.21	-1.88	-5.03	-3.35	-6.37	-5.41	-8.61	-8.82	-8.44	-37.69	-7.3	-4.77	-6.11	-3.2	-0.31	-4.51	-15.63	-3.85	-0.1	2.94	2.02	-0.52	2.05	1.91	-3.21
θ (135°)	-2.28	-2.35	-6.41	-3.68	-9.26	-13.99	-12.44	-11.28	-12.11	-27.94	-12.08	-12.91	-9.58	-1.88	-5.44	-15.27	-5.21	0.03	1.1	0.42	-0.97	-1.28	-0.63	1.38	-2.28
θ (150°)	-5.89	-3.34	-5.99	-11.93	-8.53	-10.15	-9.99	-9.8	-11.23	-9.26	-12.05	-11.76	-4.78	-6.02	-11.7	-11.11	-6.56	-3.48	-0.71	0.78	0.13	-2.19	-3.3	-2.46	-5.89
θ (165°)	-15.6	-18.6	-18.17	-19.71	-12.24	-11.02	-12.17	-18.83	-29.46	-21.68	-17.43	-19.79	-20.53	-9.41	-3.64	-1.33	-0.06	0.33	-0.39	-1.32	-3.16	-6.02	-10.41	-12.72	-15.6
θ (180°)	-7.95	-6.22	-5.03	-4.35	-4.14	-4.05	-4.59	-6.1	-8.06	-10.44	-12.1	-10.5	-9.21	-7.31	-5.21	-3.92	-3.44	-3.4	-4.12	-5.13	-6.26	-8.55	-10.14	-10.13	-7.95
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°)	-11.74	-13.9	-22.54	-23.34	-20.96	-17.72	-15.06	-13.23	-11.34	-12.17	-12.85	-14.34	-15.46	-18.1	-26.14	-38.65	-23.47	-17.69	-16.31	-14.13	-12.42	-12.5	-11.75	-10.78	-11.74
θ (15°)	-22.35	-22.18	-12.71	-8.82	-9.08	-11.27	-18.83	-23.33	-14.26	-9.13	-6.36	-6.03	-8.07	-16.69	-20.51	-13.99	-11.92	-11.54	-9.85	-7.97	-7.6	-7.81	-8.74	-12.18	-22.35
θ (30°)	-19.45	-17.38	-11.46	-10.58	-9.27	-7.86	-6.39	-6.79	-10.42	-21.73	-14.9	-12.29	-11.52	-15.78	-12.85	-14.41	-19.79	-11.83	-9.7	-9.21	-9.73	-15.05	-14.36	-14.24	-19.45
θ (45°)	-12.87	-20.97	-17.58	-15.38	-20.99	-25.64	-11.96	-5.83	-5.48	-8.41	-19.84	-15.28	-15.13	-21.18	-15.95	-12.14	-11.87	-13.07	-12.18	-9.49	-8.82	-9.26	-10.26	-16.69	-12.87
θ (60°)	-16.73	-11.61	-13.22	-14.78	-15.76	-17.12	-9.93	-5.8	-7.77	-4.36	-11.11	-6.59	-8.69	-24.02	-8.97	-10.1	-16.08	-21.56	-23.86	-17.77	-13.31	-14.94	-16.96	-9.43	-16.73
θ (75°)	-10.1	-16.28	-8.74	-12.73	-9.18	-10.51	-13.62	-13.59	-12.87	-13.62	-10.41	-10.83	-7.79	-14.68	-5.88	-9.62	-8.56	-14.54	-28.1	-16.86	-17.58	-9.66	-15.17	-10.4	-10.1
θ (90°)	-14.88	-13.47	-2.79	-9.06	-4.68	-5.41	-10.39	-11	-8.47	-8.76	-13.03	-7.67	-31.94	-9.27	-5.92	-7.09	-4.39	-9.08	-10.38	-29	-11.67	-17.54	-16.06	-17.62	-14.88
θ (105°)	-16.52	-17.01	-5.98	-7.72	-10.99	-13.27	-12.17	-13.6	-13.02	-14.61	-5.74	-4.78	-19.2	-9.08	-8.71	-10.33	-17.48	-11.4	-20.64	-14.91	-19.97	-24.28	-21.21	-14.6	-16.52
θ (120°)	-11.3	-20.64	-5.05	-15.25	-24.03	-9.15	-12.04	-7.51	-6.91	-9.48	-9.77	-9.26	-10.34	-8.31	-9.42	-15.83	-18.57	-18.43	-21.2	-17.68	-14.65	-24.66	-13.52	-5.35	-11.3
θ (135°)	-9.09	-15.31	-13.42	-9.4	-20.4	-14.32	-4.74	-5.33	-14.17	-22.33	-26.53	-11.39	-9.98	-9.2	-9.07	-26.95	-9.62	-10.52	-14.78	-14.49	-5.08	-7.74	-25.7	-17.16	-9.09
θ (150°)	-11.27	-8.43	-8.13	-10.53	-12.97	-15.68	-10.33	-9.97	-12.73	-18.57	-12.2	-9.78	-10.45	-2.88	-4.14	-10.86	-8.82	-7.24	-11.35	-10.16	-4.03	-4.1	-20.16	-3.97	-11.27
θ (165°)	-13.24	-15.53	-20.99	-14.62	-13.86	-11.96	-12.39	-18.61	-18.73	-10.11	-8.37	-9.54	-5.13	-2.15	-2.77	-4.65	-5.95	-6.94	-7.42	-8.46	-7.67	-4.71	-3.69	-4.74	-13.24
θ (180°)	[-1.75]	-2.61	-5.44	-8.01	-10.86	-9.77	-9.29	-6.11	-4.47	-3.56	-3.59	-4.46	-5.2	-5.61	-6.99	-9.19	-11.18	-12.43	-10.89	-8.85	-7.39	-5.02	-4.48	-3.19	-1.75

Ant.	No.3																								
Freq. (MHz)	5785																								
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°)	-6.27	-5.58	-4.92	-4.5	-4.53	-5.65	-7.14	-8.81	-10.56	-10.4	-9.72	-7.98	-6.53	-5.72	-5.05	-5.04	-5.51	-5.75	-6.59	-7.35	-7.82	-8.53	-7.64	-6.48	-6.27
θ (15°)	-5.96	-7.22	-8.19	-11.05	-13.35	-7.92	-5.91	-7.46	-14.93	-20.51	-10.66	-8.57	-7.74	-8.79	-11.96	-12.33	-11.02	-12.92	-16.02	-16.54	-13.82	-9.24	-6.3	-5.66	-5.96
θ (30°)	-1.75	-2.25	-5.41	-14.96	-16.1	-8.69	-5.14	-3.21	-3.45	-8.71	-19.34	-9.03	-5.13	-5.06	-8.36	-2.94	-4.06	-10.28	-9.21	-6.83	-7.89	-9.84	-10.81	-3.75	-1.75
θ (45°)	-2.79	-6.89	-5	-4.76	-5.9	-3.21	-3.95	-6.37	-4.74	-7.71	-37.28	-13.27	-2.63	-2.59	-2.44	-5.74	-9.99	-4.64	-1.35	-0.95	-5.39	-6.43	-3.17	-2.86	-2.79
θ (60°)	-0.99	-4.07	-1.28	-3.08	-0.81	-4.63	-7.37	-7.53	-7.03	-6.53	-18.46	-9.06	-4.6	-0.84	-1.14	-4.56	-3.79	-2.05	1.52	3.19	2.42	-3.96	-6.42	-5.46	-0.99
θ (75°)	-3.62	0.28	-0.25	-5.48	-2.99	-3.32	-5.19	-3.32	-9.78	-8.3	-15.43	-5.46	0.06	-1.16	2.22	-2.72	-6.14	-2	4.22	4.41	1.33	-2.91	-2.71	-4.06	-3.62
θ (90°)	-5.81	-0.25	2.12	-1.9	-2.94	-2.16	3.52	-3.5	-0.87	0.07	-21.23	-5.02	-1.09	-0.84	2.02	0.27	-18.61	-27.75	1.84	[5.09]	3.03	0.41	-6.77	-4.08	-5.81
θ (105°)	-6.03	-1.3	-0.38	-10.98	-5.88	-1.46	4.2	-1.63	-10.78	-2.18	-7.61	-2.68	-1.15	0.68	1.41	-3.94	-7.02	-5.8	3.16	4.4	3.5	-4.83	-3.63	-1.4	-6.03
θ (120°)	-5	-8.51	-6.84	-3.89	-4.94	-2.67	-5.11	-6.04	-5.3	-24.34	-10.95	-5.08	-7.91	-1.32	-1.54	-5.69	-19.47	-8.88	-1.19	2.4	2.11	-1.16	-1.6	1.3	-5
θ (135°)	-3.23	-6.09	-6.63	-5	-7.02	-10.04	-8.76	-9.7	-7.25	-24.17	-8.94	-12.65	-10.19	-5.1	-8.57	-13.41	-8.55	-1.47	0.84	1.92	-1.37	-2.44	0.57	0.76	-3.23
θ (150°)	-5.6	-6.51	-8.1	-15.66	-9.4	-7.61	-6.94	-8.77	-14.7	-12.03	-16.53	-9.46	-6.23	-9.26	-15.03	-10.1	-7.32	-5.33	-3.06	-0.75	0.76	-0.4	-3.71	-4.71	-5.6
θ (165°)	-7.08	-10.17	-15.16	-21.4	-16.73	-15.91	-26.19	-15.24	-11.39	-14.22	-25.38	-17.71	-31.6	-8.68	-4.22	-2.49	-0.26	1.34	1.66	1.07	-1.01	-4.45	-10.1	-10.87	-7.08
θ (180°)	-9.81	-7.76	-6.32	-5.99	-4.83	-4.22	-4.35	-4.83	-5.12	-5.3	-6.33	-7.46	-8.92	-9.16	-7.77	-6.34	-5.66	-5.32	-5.39	-5.42	-5.92	-7.15	-9.13	-10.92	-9.81
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°)	-7.86	-8.95	-9.7	-11.18	-10.57	-8.59	-7.24	-5.51	-4.66	-5.23	-5.76	-6.13	-7.46	-8.66	-8.85	-8.91	-7.77	-6.86	-5.95	-5.15	-4.86	-4.24	-4.43	-5.81	-7.86
θ (15°)	-6.56	-6.19	-6.43	-6.76	-7.6	-10.05	-10.03	-6.6	-4.58	-4.07	-5.04	-6.48	-9.61	-24.67	-14.46	-13.59	-15.29	-19.28	-17.73	-13.83	-9.95	-7.77	-7.6	-6.97	-6.56
θ (30°)	-15.46	-17.58	-14.55	-12.17	-10.02	-7.19	-7.45	-12.68	-18.81	-13.61	-13.31	-8.92	-8.97	-22.02	-10.56	-13.64	-19.53	-23.66	-16.18	-19.54	-36.1	-12.94	-7.26	-8.09	-15.46
θ (45°)	-20.21	-11.88	-17.81	-23.41	-16.13	-13.97	-16.83	-7.66	-7	-8.71	-19.94	-11.52	-35.19	-13.93	-15.77	-13.99	-16.28	-16.09	-10.82	-6.93	-7.06	-10.28	-10.55	-7.58	-20.21
θ (60°)	-17.15	-10.85	-15.29	-25.73	-18.55	-12.68	-11.91	-8.78	-9.06	-3.34	-20.6	-4.98	-11.58	-17.95	-11.26	-9.53	-17.43	-17.68	-14.38	-12.67	-8.62	-12.41	-10.71	-9.88	-17.15
θ (75°)	-12.01	-15.19	-15.2	-15.98	-16.19	-14.48	-8.96	-12.35	-11.98	-9.76	-10.27	-6.7	-15.14	-14.13	-6.55	-19.4	-16.53	-26.46	-12.66	-7.93	-30.16	-9.08	-15.91	-11.5	-12.01
θ (90°)	-5.87	-7.74	-8.29	-10.22	-9.31	-6.81	-20.94	-20.65	-7.65	-7.99	-12.9	-4.53	-15.78	-10.22	-16.95	-8.05	-12.66	-24.26	-18.91	-10.52	-22.13	-6.57	-11.8	-20.48	-5.87
θ (105°)	-12.38	-17.07	-11.62	-8.09	-10.99	-7.43	-8.89	-12.53	-16.71	-14.28	-3.71	-7.07	-5.07	-8.54	-8.26	-7.21	-21.65	-22.89	-14.6	-14.92	-13.7	-11.35	-13.2	-15.68	-12.38
θ (120°)	-12.39	-8.54	-6.23	-11.89	-19.05	-9.45	-8.45	-5.47	-6.91	-10.58	-4.83	-10.77	-8.82	-9.13	-6.9	-10.39	-38.78	-11.63	-10.76	-17.71	-6.98	-12.93	-6.57	-7.43	-12.39
θ (135°)	-9.09	-15	-30.55	-11.21	-20.25	-17.95	-5.64	-5.02	-11.47	-18.51	-12.05	-10.47	-14.49	-13	-5.46	-16.41	-9.48	-16.37	-14.37	-17.9	-11.99	-6.94	-10.9	-13.99	-9.09
θ (150°)	-9.54	-7.45	-6.05	-12.3	-31.67	-16.46	-12.72	-9.69	-8.59	-18.82	-13.28	-5.22	-4.83	[-0.77]	-5.2	-15.57	-11.24	-8.15	-10.99	-11.91	-6.31	-3.75	-7.74	-4.91	-9.54
θ (165°)	-16.78	-12.75	-14.13	-19.53	-13.68	-10.06	-8.49	-10.23	-18.71	-14.87	-11.12	-12.51	-5.89	-3.52	-3.53	-2.29	-1.75	-4.18	-8.74	-15	-11.02	-8.58	-7.71	-7.07	-16.78
θ (180°)	-2.89	-3.62	-5.92	-5.7	-5.75	-7.89	-8.92	-6.95	-7.13	-6.87	-5.62	-4.35	-3.98	-4.88	-6.01	-6.7	-7.55	-7.58	-8.67	-8.62	-7.48	-6.96	-6.56	-5.24	-2.89

Ant.	No.4
Freq (MHz)	2450
Polarity	Theta

	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
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°)	-6.37	-6.52	-7.19	-8.29	-9.31	-10.08	-11.39	-11.8	-9.87	-7.29	-5.88	-5.24	-5.11	-5.43	-6.41	-8.1	-10.87	-12.84	-12.03	-10.49	-9.31	-8.38	-7.46	-6.81	-6.37
θ (15°)	-4.39	-6.14	-9.12	-14.33	-19.94	-14.86	-11.16	-9.16	-7.79	-6.57	-5.49	-4.93	-4.98	-5.57	-6.87	-9.49	-14.59	-24.67	-18.01	-12.4	-9.43	-7.13	-5.16	-4.16	-4.39
θ (30°)	-0.12	-0.28	-1.28	-3.31	-7.51	-20.04	-10.63	-4.94	-3.49	-3.88	-4.35	-3.92	-3.93	-5.82	-9.93	-16.37	-25.48	-11.7	-6.47	-4.39	-4.51	-5.34	-3.87	-1.51	-0.12
θ (45°)	0.76	0.04	-1.56	-2.62	-4.83	-11.59	-9.1	-2.85	-0.83	-1.46	-3.69	-4.56	-4.82	-7.86	-10.21	-10.18	-14.19	-11.56	-5.36	-2.47	-1.85	-3.17	-3.93	-1.58	0.76
θ (60°)	-4.03	-7.46	-10.62	-6.46	-6.93	-11.57	-15.56	-6.35	-1.6	0.06	-1.01	-2.89	-3.3	-7	-10.15	-6.85	-7.28	-11.21	-18.03	-9.93	-5.15	-4.04	-6.42	-6.31	-4.03
θ (75°)	-16.92	-15.42	-9.14	-8.84	-11.17	-15.89	-16.08	-9.29	-4.72	-2.23	-2.87	-6.51	-8.18	-10.66	-5.51	-2.86	-3.42	-5.97	-9.87	-10.5	-7.5	-8.06	-12.13	-10.98	-16.92
θ (90°)	-9.08	-3.78	-1.45	-3.94	-12.95	-14.44	-9.06	-9.2	-10.34	-8.63	-9.23	-12.03	-14.5	-17.82	-18.42	-7.04	-3.61	-3.82	-6.19	-9	-9.06	-9.21	-13.29	-16.95	-9.08
θ (105°)	-3.01	-1.24	-1.9	-5.15	-8.78	-11.05	-12.66	-16.72	-29.43	-16.65	-14.52	-13.86	-14.07	-15.48	-19.57	-23.08	-11.58	-9.85	-12.07	-16.43	-20.34	-15.27	-9.19	-5.88	-3.01
θ (120°)	-1.59	-2.35	-4.13	-6.19	-9.72	-15.95	-19.08	-15.55	-14.07	-13.41	-11.93	-9.3	-7.89	-9.91	-17.69	-22.18	-13.71	-12.14	-12.06	-11.28	-9.94	-10.21	-8.35	-3.31	-1.59
θ (135°)	-1.75	-4.8	-7.51	-10.5	-15.97	-16.73	-14.84	-16.09	-19.41	-15.37	-8.27	-4.92	-4.9	-7.07	-10.02	-13.87	-22.71	-21.06	-11.07	-6.54	-4.14	-2.32	-0.63	-0.06	-1.75
θ (150°)	2.04	-0.67	-6.13	-12.52	-12.44	-10.81	-10.3	-10.39	-11.64	-15.53	-18.94	-11.87	-8.86	-9.05	-11.98	-14.84	-14.64	-12.9	-8.06	-3.28	0.17	2.39	3.67	[3.88]	2.04
θ (165°)	-5.89	-10.77	-12.77	-12.74	-15.2	-12.14	-6.45	-3.33	-2.3	-3.15	-6.33	-14.15	-20.24	-12.39	-11.76	-13.87	-13.02	-7.77	-3.83	-1.47	-0.35	-0.16	-0.82	-2.08	-5.89
θ (180°)	-3.94	-5.01	-7.22	-11.03	-18.73	-22.28	-12.59	-8.4	-5.93	-4.54	-3.9	-3.87	-4.37	-5.51	-7.33	-10.22	-15.74	-23.4	-14.01	-8.96	-5.99	-4.2	-3.26	-3.14	-3.94
Polarity	Phi																								

	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
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°)	-10.15	-10.09	-10.81	-11.05	-9.61	-7.62	-6.43	-6.22	-6.8	-8.36	-10.32	-11.7	-10.97	-8.81	-7.21	-6.15	-5.44	-5.43	-5.78	-6.59	-7.66	-8.85	-10.01	-10.31	-10.15
θ (15°)	-7.71	-4.79	-3.24	-2.63	-2.92	-4.07	-6.25	-9.26	-12.25	-13.79	-15.42	-17.19	-14.41	-10.36	-7.09	-5.01	-3.8	-3.53	-4.38	-6.08	-7.98	-10.06	-12.89	-12.84	-7.71
θ (30°)	-9.31	-7.46	-5.5	-3.08	-0.89	0.15	-0.42	-2.71	-6.03	-8.41	-11.14	-22.13	-13.88	-6.83	-4.02	-1.94	-0.27	0.45	-0.27	-2.54	-6.29	-11.77	-19.02	-15.34	-9.31
θ (45°)	-8.93	-8.26	-6.84	-2.86	0.94	[2.70]	2.49	0.35	-3.93	-10.1	-18.97	-18.51	-7.18	-3.28	-1.51	0.47	2.08	2.28	0.99	-1.29	-3.8	-5.97	-7.23	-7.98	-8.93
θ (60°)	-7.48	-11.95	-18.7	-5.48	-0.11	1.76	1.84	0.38	-2.78	-7.06	-11.47	-12.02	-5.93	-3.44	-1.98	0.25	1.73	2.08	1.53	0.58	0.05	-1.2	-3.74	-4.3	-7.48
θ (75°)	-14.67	-13.71	-10.97	-5.16	-2.85	-1.34	-0.63	-1.91	-5.47	-7.6	-9.59	-11.89	-8.46	-8.49	-3.69	0.87	1.83	1.07	-0.22	-0.8	-0.16	-0.41	-2.68	-6.32	-14.67
θ (90°)	-13.49	-16.11	-15.87	-8.79	-5.09	-0.93	0.62	-1.12	-7.62	-11.1	-13.36	-16.14	-21.44	-9.41	-12.61	-7.77	-1.83	-1.13	-2.78	-3.48	-0.98	-0.12	-2.65	-8.66	-13.49
θ (105°)	-10.18	-12.56	-19.21	-7.95	-2.95	-0.31	-0.41	-4.55	-36.06	-9.28	-17.46	-10.52	-7.93	-6.69	-3.77	-4.89	-3.78	-2.79	-2.21	-0.18	1.5	0.91	-3.45	-12.76	-10.18
θ (120°)	-7.95	-9.23	-16.22	-10.26	-7.06	-3.65	-2.21	-3.93	-11.41	-15.65	-16.72	-11.82	-5.05	-6.03	-4.02	-0.64	-0.47	-1.35	-1.37	-0.02	1.14	0.39	-3.49	-19.21	-7.95
θ (135°)	-27.38	-15.64	-10.27	-10.46	-11.29	-8.65	-7.12	-8.8	-17.22	-20.25	-15.77	-13.42	-8.41	-9.42	-9.36	-5.39	-3.06	-1.52	-0.54	-0.31	-1.36	-4.56	-12.02	-23.25	-27.38
θ (150°)	-5.34	-3.5	-4.43	-8.75	-17.05	-12.38	-9.69	-10.4	-15.66	-31.5	-15.53	-14.08	-13.56	-9.3	-6.79	-6.64	-6.53	-4.45	-2.58	-2.15	-3.17	-5.44	-9.68	-13.33	-5.34
θ (165°)	-12.68	-12.45	-11.52	-6.83	-3.27	-1.46	-1.03	-2.12	-5.07	-10.82	-22.77	-21.6	-14.99	-9.06	-4.71	-2.1	-0.66	-0.16	-0.56	-2.04	-4.83	-9.85	-21.24	-20.94	-12.68
θ (180°)	-11.25	-8	-5.85	-4.83	-4.29	-4.03	-4.3	-5.43	-7.41	-10.7	-16.5	-24.88	-14.52	-9.48	-6.62	-4.99	-4.23	-4.04	-4.29	-4.95	-6.54	-9.58	-15.49	-24.27	-11.25

Ant.	No.4																								
Freq (MHz)	5200																								
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°)	-0.48	-1.07	-2.01	-3.67	-7.27	-14.61	-20.17	-8.8	-4.81	-2.21	-0.61	0.16	0.48	0.16	-0.99	-3.01	-6.45	-14.49	-19.89	-7.41	-3.87	-1.98	-0.53	-0.07	-0.48
θ (15°)	-0.15	-1.35	-2.64	-4.38	-8.72	-18.22	-7.12	-2.03	0.1	0.06	-1.26	-1.95	-0.66	0.24	-0.3	-2.14	-6.85	-18.89	-8.02	-3.06	-1.38	-0.89	0.14	0.46	-0.15
θ (30°)	-5.07	-8.67	-6.73	-8.83	-10.84	-12.17	-8.4	-3.28	-1.22	-0.82	-0.9	-6.15	-1.49	0.47	-0.61	-1.78	-7.46	-22	-18.26	-10.72	-11.92	-14.2	-8.59	-3.5	-5.07
θ (45°)	-2.91	-6.85	-7.7	-7.09	-9.35	-23.33	-12	-10.94	-2.45	-0.71	-7.12	-3.11	-4.03	-5.6	-7.12	-8.62	-12.1	-24.78	-21.81	-13.06	-6.5	-3.58	-3.21	-2.12	-2.91
θ (60°)	-10.74	-6.82	-7.27	-7	-8.83	-11.76	-9.13	-3.69	-4.95	-9.31	-10.02	-8	-2.65	-2.15	-1.77	-1.86	-4.81	-20.21	-17.53	-11.46	-7.53	-2.62	-3.34	-5.11	-10.74
θ (75°)	-9.36	-7.82	-6.33	-9.26	-15.62	-5.58	-7.61	-15.7	-19.83	-24.1	-12.2	-14	-13.37	-15.08	-21.03	-8.92	-19.55	-21.88	-11.35	-7.18	-7.17	-6.23	-4.72	-8.44	-9.36
θ (90°)	-6.86	-6.77	-6.67	-9.64	-14.13	-4.46	-4.11	-6.96	-13.74	-13.18	-12.68	-11.43	-11.88	-7.81	-2.67	-4.3	-7.35	-11.6	-16.24	-9.72	-11.12	-19.93	-6.63	-7.54	-6.86
θ (105°)	-5.34	-12.29	-11.77	-27.87	-14.63	-13.93	-7.08	-6.89	-20.57	-5.49	-5	-5.61	-1.1	-4.03	-2.34	-3.91	-5.04	-12.12	-7.35	-10.68	-5.76	-7.56	-10.99	-4.61	-5.34
θ (120°)	-5.21	-11.19	-6.02	-10.85	-20.34	-9.36	-9.48	-14.43	-12.27	-3.42	-1.81	-1.51	-0.66	-1.36	-0.98	-0.83	-0.9	-4.78	-9	-16.14	-10.58	-12	-8.28	-7.36	-5.21
θ (135°)	-8.89	-8.56	-2.69	-8.35	-15.55	-15.98	-29.27	-13.01	-8.78	-4.8	-1.57	0.15	2.65	0.83	-0.99	-1.22	-3.2	-10.52	-16.14	-15	-7.32	-4.89	-3.89	-11.01	-8.89
θ (150°)	-5.51	-4.99	-6.64	-8.39	-14.89	-18.36	-16.08	-15.77	-11.42	-0.78	2.05	2.14	3.63	[4.28]	0.5	-4.5	-9.05	-12.33	-9.1	-16.24	-18.53	-8.61	-5.4	-6.1	-5.51
θ (165°)	-2.82	-5.79	-4.16	-4.42	-8.05	-16.27	-20.02	-18.93	-13.92	-4.76	-1.42	-1.19	-2.63	-3.95	-4.66	-5.15	-5.21	-5.61	-7.32	-6.16	-2.2	0.52	1.89	1.56	-2.82
θ (180°)	1.96	1.39	-0.17	-2.34	-4.81	-9.75	-23.58	-9.99	-4.03	-0.93	0.82	1.59	1.71	0.93	-0.4	-2.31	-5.96	-11.57	-23.69	-10.76	-4.54	-0.9	1.03	1.8	1.96
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°)	-16.94	-9.1	-4.66	-2.3	-0.52	0.11	0.03	-0.31	-1.25	-2.95	-5.84	-11.38	-23.16	-11.04	-5.39	-2.21	-0.19	0.59	0.84	0.56	-0.84	-2.91	-5.97	-13.39	-16.94
θ (15°)	-20.93	-12.47	-5.77	-1.92	0.68	1.98	2.16	1.18	-0.9	-4.42	-8.16	-10.95	-17.37	-16.4	-5.2	-0.37	1.93	2.52	2.04	1.23	-0.72	-2.12	-3.18	-6.03	-20.93
θ (30°)	-17.43	-15.06	-7.23	-3.44	-2.74	-1.32	-0.35	-1.3	-3.79	-4.6	-8.12	-10.68	-9.6	-17.12	-15.28	-3.54	-0.03	1.02	0.81	-0.43	-3.23	-6.15	-5.49	-5.16	-17.43
θ (45°)	-25.35	-9.88	-7.38	-7.95	-3.43	-1.98	-2.01	-1.03	-2.81	-8.64	-8.42	-23.94	-13.76	-13.49	-4.25	-0.79	-0.27	-0.98	-3.08	-4.3	-2.99	-4.88	-3.68	-3.23	-25.35
θ (60°)	-13.49	-8.64	-10.41	-9.33	-7.42	-2.62	-0.56	-3.51	-4.79	-4.77	-6.42	-10.41	-19.15	-21.58	-8.35	-2.85	0.83	2.02	1.06	0.63	-0.63	-2.61	-5.63	-7.7	-13.49
θ (75°)	-15.98	-4.54	-5.72	-4.51	-4.43	-1.29	-1.28	-7.08	-10.13	-13.3	-3.4	-14.09	-14.4	-15.55	-12.08	-5.98	-3.96	-3.73	-3.47	-4.1	-4.42	-6.57	-5.04	-7.8	-15.98
θ (90°)	-10.88	-8.54	-7.98	-4.87	-8.27	-7.59	-4.87	-11.67	-14.04	-6.77	-6.72	-8.57	-11.94	-11.49	-5.93	-1.53	0.41	0.02	1.37	0.24	0.4	-2.08	-6.89	-10.73	-10.88
θ (105°)	-7.69	-27.45	-21.39	-8.95	-13.6	-15.26	-6.85	-8.3	-12.06	-4.16	-8.54	-5.98	-19.59	-12.31	-9.73	-5.41	-2.65	-0.89	-1.97	0.54	-0.81	-1.39	-3.27	-12.53	-7.69
θ (120°)	-20.98	-15.33	-9.88	-29.49	-7.12	-6.77	-7.64	-7.09	-10.92	-6.59	-9.65	-4.49	-7.24	-10.28	-8.6	-2.74	-0.53	-2.44	-1.67	-1.44	-0.11	-2.17	-3.44	-11.14	-20.98
θ (135°)	-11.96	-15.64	-9.43	-8.53	-11.83	-26.92	-10.92	-13	-13.54	-17.92	-16.82	-8.87	-7.77	-9.34	-7.77	-4.43	-3.5	-4.11	-5.43	-4.54	-2.78	-4.75	-7.53	-14.76	-11.96
θ (150°)	-10.84	-11.18	-12.94	-20.06	-13.67	-6.19	-3.48	-6.72	-21.04	-8.05	-6.85	-10.26	-13.72	-5.17	-3.54	-5.06	-3.56	-1.75	0.51	0.38	-2.62	-2.62	-7.01	-10.46	-10.84
θ (165°)	-18.49	-20.22	-8.28	-3.57	-2	-3.33	-7.77	-11.8	-7.47	-9	-15.55	-10.02	-11.7	-14.98	-9.23	-5.44	-2.49	0.54	2.52	[3.53]	3.52	2.01	-1.17	-5.59	-18.49
θ (180°)	-15.41	-11.8	-6.82	-3.28	-0.66	0.87	1.6	1.42	0.66	-1.01	-4.25	-9.57	-11.07	-5.86	-2.9	-1.41	-0.62	-0.48	-0.73	-0.23	-0.01	-0.96	-4.04	-9.86	-15.41

Ant.	No.4																									
Freq (MHz)	5300																									
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°)	0.12	-0.34	-1.75	-4.47	-7.73	-12.46	-15.15	-10.1	-5.69	-2.99	-1.26	-0.16	0.17	-0.24	-1.23	-3.35	-6.84	-12.11	-14.76	-8.5	-3.78	-1.68	-0.5	0.12	0.12	
θ (15°)	0.87	-1.3	-2.4	-3.84	-7.97	-12.02	-7.77	-3.96	-3.13	-4.27	-5.3	-3.54	-1.53	-0.37	-0.34	-2.6	-8.04	-32.52	-7.5	-3.05	-0.16	1.31	2.07	2.24	0.87	
θ (30°)	-3.43	-8.26	-5.52	-7.11	-12.5	-17.27	-9.28	-4.04	-2.44	-1.63	-5.54	-6.42	-0.68	-2.6	-1.71	-3.31	-7.5	-15.3	-10.99	-7.86	-6.45	-9.58	-7.55	-3.08	-3.43	
θ (45°)	-4.43	-6.7	-7.34	-8.83	-12.85	-21.2	-13.17	-14.38	-2.4	-3.45	-10.53	-9.52	-4.58	-7.23	-6.37	-5.29	-11.97	-12.63	-8.28	-12.25	-7.82	-3.88	-2.95	-2.79	-4.43	
θ (60°)	-7.31	-8.32	-7.6	-3.42	-7.65	-12.36	-13.25	-5.21	-11.5	-9.45	-10.55	-6.89	-1.28	-2.88	-4.52	-2.27	-6.94	-28.35	-11.49	-8.45	-11.16	-2.7	-3.92	-7.11	-7.31	
θ (75°)	-11.06	-12.46	-5.69	-10.46	-19.26	-10.25	-12.84	-19.71	-13.1	-12.26	-18.32	-9.49	-11.29	-14.01	-7.99	-16.37	-14.53	-11.84	-8.45	-11.42	-13.1	-9	-6.06	-9.81	-11.06	
θ (90°)	-6.56	-9.75	-8.23	-13.24	-15.39	-6.27	-5.05	-5.29	-9.48	-28.5	-23.84	-22.93	-8.81	-4.59	-2.44	-4.17	-12.98	-23.55	-29.3	-14.34	-25.36	-13.2	-4.89	-6.35	-6.56	
θ (105°)	-3.71	-7.91	-16	-17.27	-22.98	-15.17	-4.45	-10.25	-10.09	-8.2	-6.85	-8.88	-2.41	-2.36	-3.42	-8.62	-7.25	-11.55	-11.38	-9.85	-4.01	-2.48	-4.19	-3.33	-3.71	
θ (120°)	-5.38	-6.4	-7.39	-10.02	-16.43	-10.71	-11.98	-13.91	-11.86	-3.31	-3.97	-1.55	-2.22	-0.5	-1.25	-2.28	-1.12	-4.26	-13.33	-16.61	-5.82	-4.45	-2.44	-2.95	-5.38	
θ (135°)	-11.8	-10.88	-2.74	-6.41	-14.03	-13.68	-30.55	-11.19	-8.85	-5.65	-2.95	-1.12	2.27	-0.02	-1.09	-2.65	-4.6	-7.82	-18.29	-16.19	-6.84	-1.43	0.13	-2.39	-11.8	
θ (150°)	-6.69	-5.93	-8.49	-10.05	-15.15	-22.27	-12.91	-15.01	-9.39	-0.33	1.22	1.5	3.38	[3.71]	0.7	-3.14	-5.97	-8.19	-10.01	-21.51	-9.95	-4.59	-2.89	-4.82	-6.69	
θ (165°)	-2.02	-6.05	-5.02	-5.36	-8.14	-18.45	-19.28	-19.07	-14.17	-5.15	-2.16	-2.37	-3.56	-4.77	-6.05	-5.1	-3.93	-4.56	-6.99	-7.74	-4.41	-1.15	0.93	1.32	-2.02	
θ (180°)	2.97	2.27	0.67	-1.36	-4.29	-9.91	-17.2	-7.86	-2.69	0.02	1.6	2.34	2.34	1.84	0.84	-1.24	-4.49	-9.5	-16.11	-8.43	-3	0.32	2.13	2.96	2.97	
Polarity	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°)
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°)	-14.71	-8.88	-5.12	-2.93	-1.8	-1.26	-0.74	-1.02	-1.94	-3.51	-6.48	-12.54	-35.39	-10.57	-4.72	-2.06	-0.71	0.28	0.41	-0.39	-1.37	-3.62	-7.97	-17.13	-14.71	
θ (15°)	-9.54	-6.47	-5.04	-2.27	-0.34	0.38	0.09	-1.33	-3.84	-6.07	-6.38	-6.67	-8.35	-7.27	-3.05	0.26	2.02	2.71	2.12	0.35	-1.35	-4.46	-9.23	-14.59	-9.54	
θ (30°)	-28.49	-11.17	-11.21	-5.93	-3.6	-2.05	-1.53	-2.71	-4.18	-6.48	-9.44	-6.29	-6.78	-8.03	-6.2	-2.36	0.63	1.84	0.89	-0.62	-2.61	-6.49	-8.43	-7.67	-28.49	
θ (45°)	-40.15	-11.78	-6.74	-11.38	-7.25	-3.99	-2.85	-1.35	-3.7	-8.78	-7.92	-15.91	-11.54	-18.34	-10.61	-5.13	-1.54	-0.84	-2.4	-5.26	-6.81	-6.02	-6.79	-5.92	-40.15	
θ (60°)	-11.73	-11.19	-6.23	-17.81	-7.49	-2.61	-1.06	-3.83	-4.8	-3.87	-8.21	-10.62	-18.94	-19.5	-8	-2.88	1.68	3.35	1.33	-0.24	-1.82	-3.93	-5.7	-8.28	-11.73	
θ (75°)	-16	-4.77	-6.81	-7.31	-6.16	-0.57	-0.94	-7.85	-12.97	-12.15	-5.69	-21.07	-11.98	-12.86	-12.61	-4.3	-0.8	-1.62	-3.9	-4.48	-4.43	-5.12	-9.88	-7.52	-16	
θ (90°)	-17.37	-10.35	-8.86	-5.9	-6.81	-9.66	-4.81	-10.57	-8.42	-4.7	-5.69	-8.29	-12.16	-12.56	-3.27	-1.43	0.69	-0.62	1.18	1.13	0.83	-0.39	-5.9	-7.52	-17.37	
θ (105°)	-11.75	-22.87	-10.86	-10.76	-12.79	-13.84	-7.23	-4.39	-9.57	-2.36	-9.6	-5.96	-40.6	-10.06	-7.87	-9.43	-2.74	-0.96	-1.76	0.68	-0.1	-1.17	-2.46	-7.68	-11.75	
θ (120°)	-13.1	-9.47	-21.95	-14.88	-11.91	-6.56	-7.19	-7.36	-9.19	-6.66	-9.27	-5.06	-9.62	-14.81	-8.08	-2.44	-0.75	-3.52	-2.95	-1.2	-1.36	-2.65	-3.95	-11.63	-13.1	
θ (135°)	-10.46	-14.98	-11.79	-6.17	-9.44	-22.79	-11.5	-15.99	-13.04	-19.2	-18.85	-8.33	-9.98	-9.29	-6.79	-6.2	-8.73	-7.37	-3.99	-2.1	-1.14	-0.66	-4.76	-10.76	-10.46	
θ (150°)	-12.75	-7.97	-8.75	-23.95	-13.19	-5.38	-2.84	-7.16	-16.49	-7.87	-6.14	-8.08	-16.65	-6.53	-5.19	-5	-4.34	-2.37	0.43	0.83	-2.16	-3.87	-5.61	-13.26	-12.75	
θ (165°)	-16.95	-21.51	-9.5	-3.84	-2.16	-2.82	-6.73	-11.7	-7.96	-8.52	-10.05	-9.17	-15.36	-21.56	-11.31	-6.51	-1.98	1.12	2.72	3.79	[3.85]	2.68	0.11	-3.53	-16.95	
θ (180°)	-13.29	-10.4	-5.57	-1.89	0.31	1.86	2.53	2.36	1.8	0.19	-2.56	-6.34	-8.03	-5.19	-2.04	-0.11	0.53	0.76	0.59	0.75	1.4	0.74	-1.65	-5.98	-13.29	

Ant.	No.4																									
Freq (MHz)	5600																									
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°)	-1.29	-1.53	-2.81	-5.14	-8.09	-14.68	-29.28	-12.91	-7.38	-4.95	-3.56	-2.95	-3	-3.27	-3.97	-5.85	-8.94	-14.36	-30.75	-13.26	-8.29	-5.23	-3.47	-2.19	-1.29	
θ (15°)	0.23	-0.36	-3.71	-10.26	-12.92	-16.45	-23.72	-13.16	-9.17	-7.91	-4.48	-1.44	-1.55	-2.86	-4.25	-7.09	-15.86	-20.58	-11.53	-8.34	-7.2	-4.91	-2.69	-1.19	0.23	
θ (30°)	-0.35	-3.09	-8.33	-4.53	-5.96	-10.9	-30.85	-10.66	-6.19	-4.81	-3.76	-2.25	-0.38	-1.12	-1.92	-3.85	-8.05	-16.41	-15.53	-12.29	-6.24	-3.17	-3.28	-3.03	-0.35	
θ (45°)	-2.93	-4.54	-3.48	-2.27	-4.65	-10.88	-18.12	-7.47	-4.44	-11.63	-9.46	-5.58	-5.19	-3.19	-2.46	-3.09	-11.94	-10.49	-8.19	-9.86	-12.28	-18.86	-17.65	-9.93	-2.93	
θ (60°)	-8.08	-11.24	-5.22	-2.29	-5.24	-8.58	-16.78	-5.39	-10.8	-2.62	-5.74	-5.28	-2.01	-4.4	-4.54	-3.47	-6.27	-18.31	-9.87	-14.68	-11.97	-5.79	-9.48	-8.75	-8.08	
θ (75°)	-21.03	-3.92	-11.07	-9.82	-11.02	-14.65	-9.35	-10.79	-8.9	-11.81	-9.67	-8.06	-6.73	-4.35	-5.19	-7.46	-6.49	-12.06	-9.91	-9.07	-8.42	-5.39	-5.27	-7.1	-21.03	
θ (90°)	-11.29	-8.29	-10.75	-10.81	-16.15	-8.74	-22.24	-7.1	-8.64	-10.55	-14.3	-12.93	-6.74	-15.43	-8.38	-4.78	-8.73	-8.83	-5.1	-6.29	-10.31	-9.6	-6.84	-6	-11.29	
θ (105°)	-5.38	-3.87	-8.52	-9.81	-29.7	-16.51	-8.14	-12.7	-12.09	-8.65	-23.15	-7.96	-4.63	-12.28	-3.48	-3.74	-6.96	-10.8	-12.85	-11.93	-12.69	-10.12	-3.91	-5.74	-5.38	
θ (120°)	-1.36	-2.84	-8.56	-8.04	-11.02	-11.46	-9.49	-12.92	-16.12	-7	-9.57	-5.84	-1.88	-2.22	-4.67	-6.51	-7.74	-7.57	-9.01	-12.34	-8.89	-6.89	-4.14	-1.88	-1.36	
θ (135°)	-3.79	-5.43	-4.19	-5.94	-9.82	-13.01	-15.03	-13.24	-6.09	-6.8	-0.45	2.17	2.07	0.41	-1.93	-1.02	-7.96	-14.11	-9.81	-14.42	-7.29	-3.06	0.99	2.49	-3.79	
θ (150°)	-3.87	-4.69	-4.57	-7.38	-14.05	-17.27	-9.3	-11.53	-10.02	-0.94	-0.53	-0.21	3.3	3.39	0.86	-3.52	-10.17	-6.45	-6.66	-10.86	-9.58	-4.67	-2.11	-2.06	-3.87	
θ (165°)	-0.9	-4.95	-4.16	-4.72	-11.07	-24.29	-12.13	-14.49	-12.6	-2.68	-0.4	-1.72	-3.44	-3.63	-3.28	-1.36	-0.3	-1.83	-7.46	-12.93	-4.35	-1.07	0.74	1.56	-0.9	
θ (180°)	[4.73]	4.01	2.64	1.34	-0.98	-4.69	-12.22	-7.78	-2.08	1.29	3.21	4.23	4.63	4.49	3.65	1.98	-0.38	-4.92	-13.21	-8.86	-2.23	1.47	3.64	4.65	4.73	
Polarity	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°)	-18.2	-10.82	-6.66	-4.31	-3.09	-2.17	-1.84	-2.53	-4	-6.39	-10.76	-18.11	-17.5	-10.03	-6.53	-4.15	-2.79	-2.1	-1.79	-2.21	-3.92	-6.13	-9.21	-15.37	-18.2	
θ (15°)	-16.67	-6.07	-3.24	-3.76	-5.63	-5.39	-3.79	-3.67	-3.55	-2.93	-4.08	-9.45	-9.56	-5.17	-2.05	-0.11	0.82	0.86	0.21	-2.33	-4.42	-4.17	-6.52	-11.48	-16.67	
θ (30°)	-17.82	-10.96	-9.38	-7.92	-5.21	-5.58	-6.61	-9.44	-11.15	-3.54	-3.13	-5.57	-12.75	-8.64	-4.05	-0.7	0.41	0.39	-0.5	-0.27	0.19	-2	-5.5	-16.85	-17.82	
θ (45°)	-42.46	-5.52	-6.65	-6.52	-4.36	-3.98	-3.6	-5.49	-9.28	-9.32	-5.69	-6.05	-13.99	-8.12	-4.07	-2.38	-0.66	-0.77	-2.8	-4.23	-3.81	-6.54	-11.28	-8.19	-42.46	
θ (60°)	-12.32	-27.64	-7.49	-2.68	-3.02	-8.68	-3.59	-5.08	-5.29	-8.38	-10.27	-9.82	-21.29	-11.82	-2.74	-1.71	1.84	1.46	-1.66	-4.92	-4.8	-3.81	-2.45	-4.55	-12.32	
θ (75°)	-14.99	-8.51	-6.81	-6.87	-20.45	-5.78	-4.85	-9.98	-16.43	-6.46	-11.34	-10.59	-14.18	-21.69	-9.08	-4.7	-2.18	-2.41	-2	0.43	-0.86	-3.32	-2.85	-14.68	-14.99	
θ (90°)	-15.38	-9.28	-11.27	-11.4	-11.11	-4.29	-2.81	-11.3	-9.18	-5.92	-7.57	-15.21	-8.64	-9.24	-4.81	-0.91	0.78	1.23	0.93	0.07	-0.15	-0.97	-1.47	-9.48	-15.38	
θ (105°)	-6.42	-6.89	-8.54	-4.75	-5.27	-7.14	-9.98	-7.36	-5.76	-3.59	-8.8	-12.15	-20.8	-16.13	-13.27	-5.23	-1.87	-1.94	0.26	-2.16	-0.64	-4.19	-5.17	-4.98	-6.42	
θ (120°)	-18.91	-14.16	-10.79	-17.88	-18.99	-12.19	-9.19	-8.79	-14.88	-12.28	-10.84	-8.36	-18.78	-15.41	-5.41	-2.09	1.24	-0.29	-3.23	-4.09	-1.79	-3.2	-12.92	-27.9	-18.91	
θ (135°)	-7.65	-9.29	-14.83	-7.3	-6.94	-9.61	-6.6	-7.8	-17.26	-15.65	-9.35	-11.24	-15.5	-7.49	-11.65	-4.35	-4.49	-6.35	-8.36	-4.49	-1.52	0.12	-1.69	-6.15	-7.65	
θ (150°)	-12.82	-11.51	-10.68	-22.23	-10.83	-5.47	-3.36	-7.23	-13.52	-7.74	-8.56	-15.17	-20.56	-11.8	-8.71	-3.06	-4.02	-6.23	-1.63	-0.03	-2.15	-8.15	-7.86	-8.35	-12.82	
θ (165°)	-16.02	-18.55	-9.37	-3.17	-0.85	-1.72	-7.66	-9.05	-4.91	-4.62	-6.7	-8.95	-20.21	-11.98	-9.42	-5.75	-0.85	2.77	4.72	[5.18]	4.93	3.19	0.16	-3.44	-16.02	
θ (180°)	-13.68	-9.87	-4.47	-1.6	1.92	3.43	4.2	4.41	3.8	2.59	0.78	-2.16	-5.83	-7.15	-3.36	-0.15	1.5	2.27	2.83	3.08	3.86	3.83	1.85	-2.49	-13.68	

Ant.	No.4
Freq (MHz)	5785
Polarity	Theta

	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
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°)	-1.54	-1.42	-1.3	-1.83	-3.41	-6.91	-15	-22.28	-9.1	-4.45	-2.01	-0.57	0.07	0.36	-0.11	-1.27	-3.31	-7.21	-15.5	-18.61	-8.5	-4.46	-2.48	-1.85	-1.54
θ (15°)	0.39	-0.93	-2.35	-3.52	-5.46	-6.99	-9.67	-12.71	-17.34	-10.23	-5.99	-3.66	-3.03	-3.81	-6.88	-7.79	-6.43	-5.71	-5.62	-5.37	-4.8	-3.44	-1.43	0.06	0.39
θ (30°)	0.63	0.08	-7.24	-7.66	-4.7	-4.88	-7.27	-10.25	-9.46	-6.96	-7.51	-3.06	-5.58	-5.83	-8.12	-11.33	-13.13	-16.69	-20.36	-12.34	-9.31	-8.76	-2.23	-0.18	0.63
θ (45°)	-6.71	-6.12	-3.79	-0.27	-1.54	-9.22	-14.93	-7.43	-6.31	-13.61	-9.78	-2.28	-5.79	-6.03	-8.88	-14.57	-19.68	-15.47	-30.02	-11.88	-9.43	-6.71	-6.47	-6.88	-6.71
θ (60°)	-3.68	-10.85	-2.4	-1.42	-6.3	-22.61	-9.19	-8.72	-12.01	-5.99	-16.96	-5.97	-8.19	-11.77	-11.39	-13.55	-11.9	-11.97	-6.84	-13.66	-27.7	-7.6	-13.89	-7.52	-3.68
θ (75°)	-6.86	-21.38	-9.04	-6.6	-8.26	-20.07	-12.4	-18.63	-10.54	-10.03	-16.19	-6.51	-5.36	-2.67	-3.06	-4.46	-6.41	-9.04	-23.54	-11.8	-22.41	-6.48	-9.56	-6.82	-6.86
θ (90°)	-12.97	-19.78	-16.9	-13.52	-20.51	-5.66	-16.38	-6.19	-10.8	-21.96	-11.91	-7.84	-5.37	-7.15	-4.89	-9.2	-8.44	-13.4	-15.24	-10.8	-23.13	-13	-14.87	-6.17	-12.97
θ (105°)	-10.96	-6.61	-6.97	-3.33	-12.13	-9.16	-6.33	-10.33	-14.04	-8.92	-11.4	-2.13	-5.57	-2.31	-0.96	-1.6	-1.79	-5.22	-20.25	-8.59	-9.11	-7.45	-6.79	-5.63	-10.96
θ (120°)	-2.6	-2.29	-6.55	-14.53	-15.23	-11.96	-7.75	-7.3	-18.62	-7.42	-7.36	-5.99	-1.62	-1.88	-0.8	-4.27	-6.75	-1.42	-3.34	-10.61	-4.57	-1.23	0.89	-2.24	-2.6
θ (135°)	-1.71	-6.97	-6.96	-8.39	-13.03	-15.02	-17.04	-10.99	-6.01	-10.92	0.87	2.22	1.54	2.21	-0.29	0.78	-3.07	-6.35	-19.29	-11.81	-7.54	-1	-0.96	2.18	-1.71
θ (150°)	-1.44	-0.6	-3.05	-6.63	-13.3	-22.11	-8.21	-10.1	-6.29	0.17	-0.43	0.51	3.5	3.03	0.52	-2.92	-8.18	-13.77	-16.49	-16.47	-5.36	-0.05	0.9	0.41	-1.44
θ (165°)	-0.92	-5.01	-6.77	-6.14	-8.41	-14.52	-24.09	-35.1	-10.1	-4.11	-2.48	-3.8	-3.68	-3.28	-3.05	-0.75	-0.13	-2.41	-8.48	-10.52	-3.83	-0.89	0.48	0.9	-0.92
θ (180°)	[5.09]	4.77	3.56	1.96	0.39	-2.93	-9.36	-12.28	-3.85	0.33	2.75	4.2	4.91	5	4.43	3.29	1	-2.47	-8.45	-12.25	-3.64	0.85	3.35	4.63	5.09

Polarity	Phi
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	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
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°)	-17.66	-15.84	-8.22	-4.11	-1.92	-0.58	0.2	0.55	0.09	-1.15	-3.42	-7.32	-15.96	-16.69	-7.83	-3.62	-1.43	-0.35	0.27	0.29	-0.58	-1.8	-4.2	-8.83	-17.66
θ (15°)	-18.74	-5.54	-1.88	-0.35	-0.49	-0.76	-0.02	0.37	0.48	-0.99	-5.1	-16.8	-11.79	-6.38	-4.01	-1.98	-1.4	-1.47	-2.8	-5.26	-5.46	-5.63	-6.97	-10.07	-18.74
θ (30°)	-10.29	-6.57	-7.13	-9.97	-9.15	-8.05	-7.41	-7.83	-3.56	-3.91	-5.88	-16.1	-12.74	-14.35	-5.34	-3.14	-3.86	-3.68	-1.93	-1.59	-4.04	-2.61	-4.71	-13.82	-10.29
θ (45°)	-11.12	-8.7	-7.08	-3.83	-2.59	-2.23	-1.34	-5.24	-6.75	-4.36	-10.9	-12.58	-4.95	-1.5	-2.33	-1.82	-0.67	-0.09	-2.45	-5.29	-9.3	-10.99	-14.61	-11.12	
θ (60°)	-14.04	-17.9	-5.99	-2.5	-1.9	-5.76	-2.68	-2.88	-0.97	-9.28	-6.17	-5.55	-14.21	-6.3	-6.92	-2.32	-4.32	-6.69	-2.82	-1.39	-0.21	-4.19	-3.96	-5.56	-14.04
θ (75°)	-13.1	-17.97	-6.41	-7.19	-9.18	-4.72	-4.16	-6.05	-6.26	-6.27	-13.91	-9.71	-9.73	-13.15	-4.44	-0.25	-0.89	-1.93	-1.56	0.85	0.67	-4.94	-4.51	-13.05	-13.1
θ (90°)	-19.85	-16.07	-6.12	-32.91	-17.75	-11.33	-7.07	-14.72	-5.27	-10	-5.2	-14.92	-10.11	-11.63	-2.97	-0.61	1.06	1.16	-0.25	1.57	1.51	-1.77	-0.76	-6.96	-19.85
θ (105°)	-10.68	-4.46	-7.55	-7.51	-2.74	-11.63	-8.79	-9.83	-8.46	-6.13	-9.9	-12.43	-18.22	-11.59	-8.88	-3.22	-1.55	-0.17	-1.52	-1.08	-7.8	-9.18	-8.51	-6.75	-10.68
θ (120°)	-26.87	-15.18	-7.45	-10.09	-17.7	-6.76	-9.16	-20.24	-16.4	-16.45	-11.31	-10.12	-14.79	-11.43	-7.95	0.13	0.38	-0.41	-0.51	-4.91	-3.95	-4.81	-9.89	-16.73	-26.87
θ (135°)	-8.56	-6.23	-7.97	-7.94	-5.91	-4.92	-5.51	-8.24	-24.27	-11.84	-4.37	-7.64	-13.45	-9.31	-12.1	-4.76	-4.17	-5.33	-5.41	-2.69	-0.58	-1.48	-1.25	-2.74	-8.56
θ (150°)	-9.58	-20.97	-4.68	-7.39	-10	-2.88	-1	-3.39	-13.78	-12.67	-14.53	-19.19	-20.3	-27.8	-4.28	-2.17	-8.08	-19.48	-6.54	-1.94	0.23	-1.75	-11.3	-7.31	-9.58
θ (165°)	-15.7	-15.65	-13.74	-6.11	-2.33	-2.51	-5.89	-11.28	-6.25	-4.34	-4.9	-8.17	-14.11	-15.07	-18.43	-10.58	-1.71	2.35	4.35	[4.81]	4.54	2.94	-0.69	-4.77	-15.7
θ (180°)	-7.17	-11.3	-7.29	-2.54	1.22	2.81	4.06	4.41	3.94	3.11	1.24	-1.63	-6.24	-11.11	-5.85	-1.05	1.28	2.4	3.03	3.79	4.11	4.29	2.84	-0.43	-7.17

Directional Gain@1SS:

1SS																									
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°)	1.03	0.56	-0.53	-2.13	-4.15	-6.42	-6.47	-4.21	-1.97	-0.11	0.9	1.24	1.11	0.67	-0.34	-2.14	-4.83	-7.42	-6.87	-4.18	-2.17	-0.8	0.45	1.04	1.03
θ (15°)	1.85	1.36	0.42	-0.34	-1.35	-1.43	-2.15	-2.14	-1.29	-0.69	-0.22	0.05	-0.22	-1.05	-2.17	-3.43	-4.77	-5.88	-5.9	-4.77	-3.63	-1.84	0.03	1.26	1.85
θ (30°)	3.57	4.08	3.89	3.11	1.8	-0.31	-0.77	-1.05	-1.58	-2.29	-0.41	1	1	0.02	-0.93	-2.32	-3.83	-3.23	-1.01	1.38	1.9	1.1	0.12	1.64	3.57
θ (45°)	5.24	5.6	4.44	2.9	1.18	-0.85	-1	0.59	0.39	0.31	0.66	1.54	0.42	-0.93	-0.36	-1.11	-3.14	-2.98	0.52	2.41	2.84	2.07	0.7	1.49	5.24
θ (60°)	4.6	4.54	2.96	1.63	0.15	-1.69	-3.1	-1.5	0.12	0.7	-0.38	0.64	0.89	0.41	1.59	0.93	-1.66	-2.03	-1	-0.24	1.05	2.17	2.53	2.33	4.6
θ (75°)	2.93	2.41	0.83	0.53	0.6	-1.24	-2.09	-2.25	-1.12	0.61	-0.39	-3.93	-3.39	-0.65	1.25	0.42	-0.6	-0.08	-0.25	0.05	2.35	4.17	3.85	3.72	2.93
θ (90°)	3.91	3.09	-0.34	1.81	1.87	0.81	-0.16	-1.12	-1.91	-1.59	-1.01	-3.81	-5.24	-1.13	-0.92	1.19	1.19	0.45	-0.24	-0.62	1.13	3.65	4.67	4.2	3.91
θ (105°)	4.96	3.53	2.09	0.39	1.15	0.98	0.2	-0.35	-2.32	-2.56	-2.3	-6.45	-1.71	-0.92	-0.59	0.59	0.82	0.21	-0.69	-0.05	1.78	2.97	4.13	5.29	4.96
θ (120°)	4.36	4.26	3.74	2.85	1.11	-1.81	-1.37	-0.55	-0.25	-0.89	-0.54	-0.85	-0.45	-1.58	-1.55	-0.19	-0.21	-0.12	0.04	-0.03	-0.23	1.02	1.62	2.61	4.36
θ (135°)	2.33	2.57	1.64	-0.21	-2.27	-4.45	-2.66	-1.4	-1.08	-0.23	0.43	0.47	1.05	0.1	-2.61	-4.03	-3.74	-1.79	-0.11	1.18	1.59	1.29	2.17	3	2.33
θ (150°)	5.89	4.74	2.26	-0.6	-2.53	-2.86	-2.72	-2.75	-3.49	-4.63	-4.88	-3.14	-1.09	-0.84	-2.45	-4.32	-3.97	-2.69	-1.24	1.25	3.12	4.08	5.15	[5.99]	5.89
θ (165°)	-2.43	-3.19	-2.81	-2.65	-3.6	-4.14	-2.38	-0.24	0.78	0.53	-1.01	-3.69	-5.93	-6.41	-5.33	-4.51	-3.81	-2.73	-1.13	1.16	2.39	2.53	1.48	-0.06	-2.43
θ (180°)	-1.13	-0.96	-1.26	-2.13	-3.76	-5.68	-6.89	-8.56	-7.67	-4.5	-2.12	-0.87	-0.37	-0.49	-1.08	-2.18	-4.05	-6.5	-7.56	-8.32	-6.84	-5.16	-3.3	-1.98	-1.13
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°)	-4.58	-2.76	-1.31	-0.35	0.35	0.64	0.42	-0.36	-1.47	-3.05	-5.02	-6.91	-4.86	-2.29	-0.57	0.51	1.09	1.21	1.02	0.37	-0.8	-2.33	-4.39	-6.46	-4.58
θ (15°)	-5.59	-1.43	0.84	2.01	2.4	2.27	1.34	0.13	-0.71	-1.9	-4.06	-6.2	-3.86	-1.95	-0.61	0.26	0.85	0.98	0.66	-0.06	-1.24	-3.1	-5.97	-8.2	-5.59
θ (30°)	-6.3	-2.81	-0.35	0.55	1.28	1.61	1.17	0.62	0.05	-0.48	-2.09	-6.25	-2.9	-1.02	0.11	1.55	2.58	2.62	1.86	0.68	0.07	-0.71	-2.51	-5.49	-6.3
θ (45°)	-3.35	-2.05	-2.01	-1.2	1.59	2.77	3.49	3.19	1.53	-1.41	-6.16	-7.33	-1.36	-0.2	0.9	2.57	3.08	3.82	3.83	2.7	0.1	-1.37	-1.91	-2.77	-3.35
θ (60°)	-0.92	-2.99	-5.16	-2.87	1.31	2.88	2.97	1.99	0.12	-2.51	-6.76	-4.93	0.16	0.01	-0.27	2.74	3.3	3.12	3.65	[4.35]	4.19	2.36	-0.53	0.03	-0.92
θ (75°)	-0.56	-3.23	-3.86	0.7	2.12	2.28	2.19	1.81	0.24	-1.51	-4.85	-2.67	-1.25	-6.33	0.2	2.66	2.11	1.16	1.07	1.92	2.54	1.84	0.42	0.24	-0.56
θ (90°)	-0.06	-2.12	-5.45	-0.91	1.22	2.82	3.19	1.83	-1.07	-3.05	-6.91	-1.4	-1.45	-5.61	-3.65	-1.53	-1.53	-1.7	-1.04	0.02	1.62	2.12	0.85	-0.64	-0.06
θ (105°)	-1.73	-2.88	-6.03	-4.09	-0.37	1.79	1.88	0.77	-1.71	-2.5	-5.66	-2.85	-4.7	-7.85	-2.39	-3	-5.3	-1.7	-0.54	-0.27	1.23	2.53	1.01	-2.05	-1.73
θ (120°)	-5.75	-5.42	-7.19	-4.17	-1.64	0.59	1.3	0.13	-1.82	-2.91	-5.3	-9.14	-6.1	-6.22	-2.82	-0.16	0.11	0.75	1.48	0.8	0.4	1.64	1.07	-4.72	-5.75
θ (135°)	-15.29	-9	-4.3	-2.48	-1.7	-0.82	-0.95	-2.65	-4.49	-4.76	-4.45	-6.81	-6.56	-3.2	-1.04	-1.19	-0.32	-0.32	2.02	2.1	0.32	-1.73	-3.17	-6.55	-15.29
θ (150°)	-6.14	-4.1	-1.86	-1.57	-2.43	-2.51	-3.25	-5.21	-7.94	-7.65	-5.4	-6.17	-4.76	-2.19	-0.9	-2.05	-3.52	-3.03	-0.24	1.06	0.18	-1.61	-4	-5.54	-6.14
θ (165°)	-11.18	-7.84	-4.27	-0.66	1.94	3.34	3.63	2.87	1.22	-1.17	-4.05	-6	-4.3	-3.75	-4.06	-2	0.74	2.32	2.71	1.91	-0.28	-4.25	-9.25	-10.73	-11.18
θ (180°)	-6.42	-6.84	-7.2	-6.33	-4.32	-2.33	-0.86	-0.05	-0.13	-1.07	-2.8	-5.29	-6.69	-7.67	-7.44	-5.52	-3.68	-2.3	-1.4	-0.91	-1.39	-2.62	-4.34	-6.33	-6.42

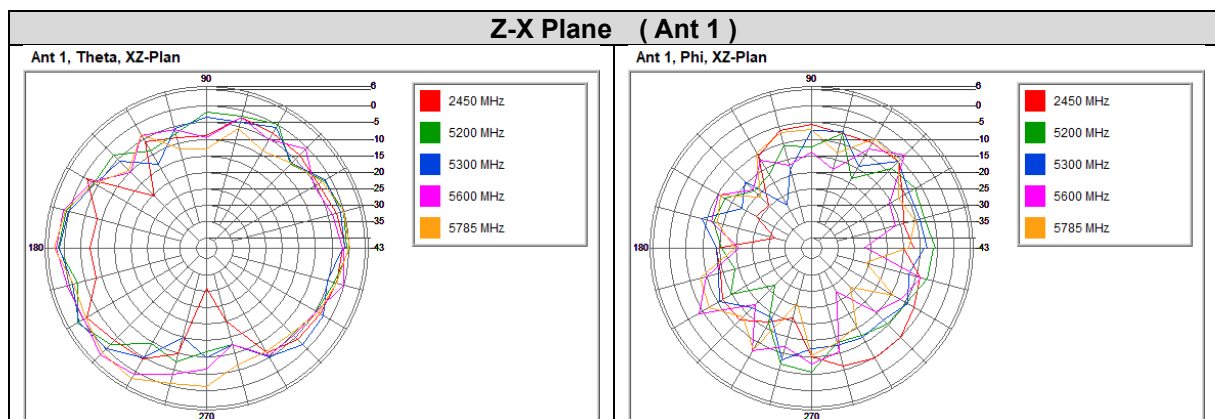
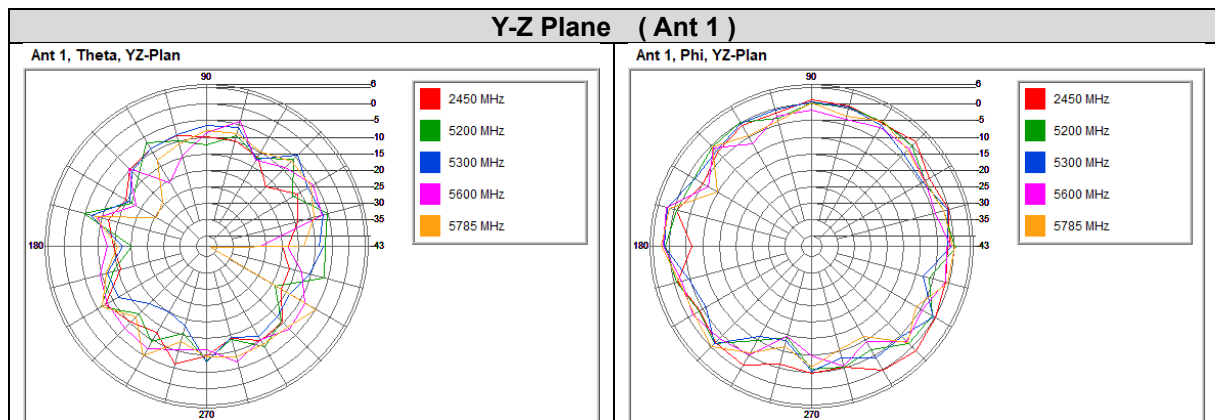
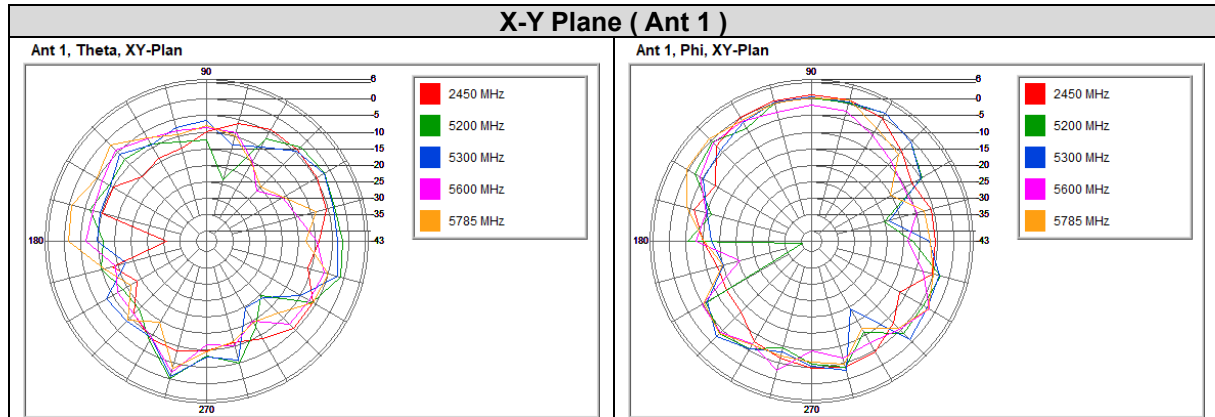
1SS																									
Freq. (MHz)	5200																								
Polarity	Theta																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	1.61	0.96	-0.02	-1.72	-4.13	-5.72	-4.9	-2.05	-0.15	1.22	1.88	2.21	2.4	2.07	1.13	-0.49	-3.06	-5.49	-4.93	-1.7	0.4	1.74	2.55	2.68	1.61
θ (15°)	2.22	1.07	-0.62	-2.88	-6.09	-5.19	-1.03	1.33	2.32	2	0.82	0.15	1.13	2.47	2.71	1.75	0.23	-0.72	1.31	2.72	3.15	3.01	3.08	3.01	2.22
θ (30°)	0.57	-0.44	-3.1	-4.98	-2.48	-2.35	-1.62	0.46	1.55	1.22	0.75	-0.16	0.35	3.28	2.75	1.63	-0.02	-2.53	-2.51	-0.85	-0.46	0.08	1.39	0.94	0.57
θ (45°)	0.99	0.86	0.11	0.23	-0.31	-2.18	-1.02	-1.57	-0.63	0.38	-1.72	2.01	-0.8	1.71	1.28	-0.03	-1.45	-0.77	0.06	0.81	1.17	2.35	2.09	2.96	0.99
θ (60°)	1.28	3.14	0.4	2.15	1	0.17	-1.58	0.15	-1.72	-3.15	-0.32	-0.81	1.52	3.09	3.17	3.05	1.29	-0.56	1.71	3.14	3.35	3.8	1.85	3.94	1.28
θ (75°)	2.49	1.56	0.77	-2.68	0.74	-0.98	-0.32	-2.59	0.07	-2.76	-1.21	0.03	-0.38	2.54	-0.08	2.49	2.54	3.45	3.01	3.18	3.57	1.92	3.66	4.43	2.49
θ (90°)	2.67	2.36	1.51	-0.86	-2.81	-0.95	5.11	0.23	-2.32	-2.39	-1.24	-0.2	0.68	3.37	3.08	4.35	4.14	[5.78]	3.47	4.68	2.65	0.81	4.26	4.82	2.67
θ (105°)	0.84	-0.52	-4.08	-1.97	-1.63	0.17	5.4	0.72	-1.35	-0.66	-0.48	-0.74	1.75	3.73	3.31	1.58	3.27	2.96	3.04	3.26	2.74	2.24	1.93	3.93	0.84
θ (120°)	0.15	-1.73	-0.57	-3	-1.79	-2.64	-3.19	-3.55	-1.99	1.17	2.49	2.33	1.28	4.99	4.5	2.57	1.6	4.06	3.63	2.94	1.32	-2.26	1.5	0.42	0.15
θ (135°)	2.12	-2.07	1.07	-1.57	-3.89	-3.86	-3.58	-4.99	-1.65	-0.21	3.38	4.27	4.47	3.98	2.56	1.92	1.8	0.24	-0.44	-0.85	1.52	0.6	-1.37	-4.51	2.12
θ (150°)	1.28	2.11	-0.42	-1.55	-1.25	-3.8	-5.61	-2.88	-2.29	-0.21	2.75	3.72	5.06	5.77	4.61	1.69	-3.28	-0.47	0.13	-1.38	-3.39	-3.25	-1.73	-2.68	1.28
θ (165°)	0.45	0.28	0.74	-0.17	-3.51	-4.66	-3.33	-3.11	-1.9	0.35	1.11	0.59	-0.7	-0.9	0.75	1.6	0.64	0.06	-0.28	-1.08	-0.17	0.56	0.52	1.54	0.45
θ (180°)	3.81	3.99	3.54	2.46	0.9	-1.27	-4.87	-2.71	-0.75	0.85	2.24	3.07	3.81	3.99	3.71	2.97	1.31	-1.15	-4.01	-3.19	-1.27	0.42	1.88	2.53	3.81
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°)	-4.45	-2.1	0.08	1.32	2.02	2.38	2.15	1.48	0.71	-0.48	-2.47	-4.16	-4.8	-2.37	-0.24	1.31	2.36	2.78	2.8	2.48	1.34	-0.38	-2.7	-5.32	-4.45
θ (15°)	-5.89	-2.27	0	1.68	3.08	3.47	2.92	1.16	-1.44	-2.74	-2.48	-2.41	-2.25	-1.78	-0.58	0.55	1.56	1.78	1.09	0.21	-1.51	-2.35	-2.38	-3.62	-5.89
θ (30°)	-5.34	-8.09	-5.56	-3.4	-0.81	0.51	1.41	1.5	0.5	-0.9	-1.99	-2.8	-2	-1.81	-6.51	-0.86	2.82	3.12	2.27	1.19	-2.2	-4.21	-2.47	-1.44	-5.34
θ (45°)	-6.85	-5.42	-2.28	-0.9	0.12	-0.12	1.61	3.36	2.82	0.97	-1.06	-5.33	-5.08	-5.22	-2.81	0.15	0.22	-1.69	-1.56	0.27	0.89	-2.33	-2.39	-1.63	-6.85
θ (60°)	-4.02	-1.89	-5.2	-3.17	-1.78	0.43	1.71	2.17	1.67	1.29	0.41	-3.42	-7.48	-9.3	-5.25	-3.73	-1.21	-1.47	-0.02	1.66	1.22	1.41	-1.64	-0.23	-4.02
θ (75°)	-4.35	-7.35	0.14	-2.38	-2.1	-1.21	1.73	-1.43	-1.36	-2.33	-0.36	-5.08	-12.02	-6.42	-6.76	-1.51	-0.99	-2.52	-1.81	-2.95	-0.91	0.05	0.87	-0.72	-4.35
θ (90°)	-3.14	-7.58	0.77	0.6	1.18	-0.02	0.94	-0.18	-1.31	0.72	-0.31	-3.31	-4.81	-3.92	-3.56	-0.3	-0.04	-1.27	0.04	-0.54	-1.78	-0.47	-2.8	0.62	-3.14
θ (105°)	-4.41	-7.07	-5.51	-0.36	-0.15	-1.04	0.15	1.51	-1.5	-2.94	-5.82	-1.73	-5.26	-3.96	-4.23	0	-1.86	-0.51	-3.27	-1.76	-2.55	-1.74	-1.41	-1.78	-4.41
θ (120°)	-5.91	-5.91	-4.01	-6.76	0.03	-0.79	0.93	1.47	0.52	0.38	-1.18	-2.45	-3.32	-6.09	-5.04	-2.22	-1.35	-1.44	-2.06	-2.63	-0.88	-2.34	-1.47	0.94	-5.91
θ (135°)	-5.73	-2.06	-0.58	-1.69	-0.44	1.06	1.17	-0.87	-2.68	-2.65	-1.57	-3.41	-4.56	-1.68	-1.28	-1.12	-0.95	0.17	0.23	-0.85	-1.67	-1.36	-3.9	-4.15	-5.73
θ (150°)	-4.22	-6.01	-2.09	-1.57	-2.39	-1.57	-1.08	-3.35	-3.8	-1.26	-0.92	-1.3	-8.54	-2.57	0.95	-1.72	-4.26	0.51	2.24	1.03	-0.76	-1.32	-2.66	-1.32	-4.22
θ (165°)	-5.16	-4.82	-3.26	-2.01	0.57	0.87	-1.1	-3.22	-3.7	-5.97	-6.15	-4.35	-4.14	-3.24	-2.72	-3.51	-2.97	0.79	3.38	4.44	[4.53]	3.42	1.08	-1.81	-5.16
θ (180°)	-3.67	-3.12	-2.13	-0.39	1.37	2.4	3.26	3.49	3.22	2.16	0.53	-2.26	-3.48	-1.47	-0.1	0.53	0.9	0.86	1.64	2.5	3.22	2.87	1.41	-1.19	-3.67

1SS																									
Freq. (MHz)	5300																								
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°)	1.61	1.1	-0.19	-2.11	-4.46	-6.05	-5.31	-3.46	-1.67	-0.33	0.78	1.31	1.52	1.23	0.36	-1.38	-3.66	-5.46	-4.59	-2.2	-0.14	1.05	1.89	2.25	1.61
θ (15°)	2.43	0.25	-0.43	-1.67	-5.31	-6.86	-2.58	0.34	0.92	-0.3	-1.91	-1.53	-0.45	0.69	0.04	-2.05	-3.72	-4.71	-0.77	1.47	3.08	4.06	4.42	4.15	2.43
θ (30°)	0.73	-0.69	-2.23	-3.46	-4.79	-5.49	-2.02	-0.24	0.17	0.38	-1.34	-0.62	1.34	0.9	1.55	-0.09	-1.98	-2.74	-1.81	-1.37	-0.9	1.21	1.07	0.85	0.73
θ (45°)	1.67	1.39	-1.3	-1.36	-2.18	-2.05	-0.97	-2.23	0.16	-0.44	0.46	0.92	1.37	1.37	1.32	-1.16	-3.05	-0.97	0.77	-0.03	0.33	2.14	2.66	2.68	1.67
θ (60°)	1.5	3	-0.1	2.7	0.06	-0.02	-1.03	-0.01	-3.01	-2.03	0.12	0.89	3.47	4.05	3.04	3.1	1.14	-0.27	1.16	1.96	2.65	3.31	1.87	3.06	1.5
θ (75°)	2.12	0.92	0.17	-3.03	0.73	-0.15	-0.95	-1.5	0.77	-0.46	-0.67	1.52	1.54	3.33	2.53	1.99	1.29	4.02	4.38	3.64	3.07	2.62	1.23	3.39	2.12
θ (90°)	2.71	1.64	2.7	-1.11	-2.98	-2.1	4.98	1.64	-2.38	-1.49	-1.75	-0.46	0.82	3.76	3.99	5.03	3.06	5.56	3.57	4.49	1.31	2.41	3.6	4.7	2.71
θ (105°)	1.78	-1.99	-2.44	-3.96	-1.68	-0.55	[5.68]	0.08	0.22	-1.08	0.98	-1.14	0.88	4.76	2.71	0.63	2.68	3.46	2.1	2.59	2.6	2.47	3.56	3.6	1.78
θ (120°)	-1.56	-1.51	-3.83	-3.38	-2.23	-4.59	-3.37	-3.84	-1.37	0.56	2.85	2.63	2.51	5.44	5.11	1.88	2.5	3.72	1.92	2.08	0.78	-0.48	2.63	2.2	-1.56
θ (135°)	-0.21	-2.49	0.41	-1.78	-3.52	-2.59	-3.55	-3.53	-0.32	-0.6	2.52	2.84	5.37	3.6	1.62	1.54	2.23	1.5	-0.03	0.01	1.62	2.15	1.17	-0.92	-0.21
θ (150°)	0.03	1.09	-1.31	-1.79	-1.65	-4.21	-4.12	-3.08	-2.66	0.36	3.08	2.7	5.12	5.38	3.82	1.81	-1.56	-0.66	-2.02	-2.92	-1.42	-0.53	-0.69	-3.43	0.03
θ (165°)	0.2	-0.18	-0.09	-1.36	-4.96	-7.89	-5.02	-4.56	-2.5	-0.2	0.66	0.28	-0.61	-0.69	1.18	2.44	1.92	0.64	-0.25	-0.83	0.29	1.19	1.07	1.34	0.2
θ (180°)	3.71	3.82	3.33	2.33	0.91	-1.5	-3.28	-0.38	1.45	2.49	3.3	3.74	3.78	4.07	3.86	2.95	1.26	-0.88	-2.52	-1.1	0.81	2.35	3.29	3.62	3.71
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°)	-5.85	-3.69	-2.06	-0.82	0.08	0.53	0.62	0.41	-0.38	-1.73	-3.82	-6.32	-6.31	-2.9	-0.56	0.83	1.74	2.19	2.19	1.34	0.17	-2.03	-5.6	-8.13	-5.85
θ (15°)	-5.62	-2.47	0.32	2.29	3.32	3.75	2.92	0.4	-4.04	-4.39	-2.34	-1.5	-1.63	-1.32	-0.07	0.89	1.4	1.52	0.54	-1.64	-2.61	-2.78	-5.66	-8.3	-5.62
θ (30°)	-9.45	-8.08	-5.06	-1.82	-1.19	0.03	0.38	-0.12	-0.33	-0.42	-0.96	-0.85	-1.74	-2.18	-3.36	-1.4	2.43	2.97	1.34	0.25	-2.23	-6.64	-4.15	-2.02	-9.45
θ (45°)	-7.53	-4.17	-2.53	-3.26	-3.18	-2.11	-0.96	2.14	2.44	2.09	-0.35	-3.76	-3.94	-9.15	-5.61	-1.51	-0.66	-1.14	-1.79	-1.19	-2.36	-6.81	-3.52	-2.08	-7.53
θ (60°)	-5.14	-5.5	-3.58	-4.56	-2.88	1.03	2.13	1.76	1.17	2.13	-0.07	-5	-7.42	-8.38	-4.95	-1.84	-1.24	1.25	1.1	0.56	0.2	0.66	-2.83	-0.86	-5.14
θ (75°)	-3.83	-6.93	-0.48	-1.83	-1.81	0.65	2.17	-1.08	-1.52	-2.13	-1.06	-4.64	-7.36	-5.53	-3.84	-1.6	0.26	-1.88	-3.29	-2.99	-0.72	-0.63	0.75	-1.86	-3.83
θ (90°)	-1.46	-9.05	-0.11	0.67	2.27	0.46	1.41	0.06	0.56	0.24	-0.78	-2.09	-8.38	-3.52	-3.38	-0.64	0.43	-2.58	-0.06	0.44	-2.48	1.19	-1.37	-0.12	-1.46
θ (105°)	-4.11	-8.45	-3.28	-0.86	0.64	-1.79	1.37	2.99	-0.54	-2.17	-4.18	-2.67	-4.82	-4.18	-1.29	-1.04	-3.48	-1.48	-2.31	-1.73	-1.74	-0.46	-0.17	-2.32	-4.11
θ (120°)	-5.03	-6.41	-8.63	-4.67	-0.44	1.77	1.77	0.81	-1.5	0.23	-1.6	-2.17	-3.49	-6.32	-4	-0.61	-0.48	-3.5	-3.17	-2.98	-2.44	-1.48	-1.93	-1.14	-5.03
θ (135°)	-6.64	-2.7	-0.14	-1.97	0.74	1.36	0.86	-0.59	-0.97	-1.6	-2.95	-3.59	-3.87	-3.08	-3.54	-1.27	-3.47	-0.98	0.85	-0.33	-1.66	-1.55	-5.38	-5.11	-6.64
θ (150°)	-6.76	-4.15	-0.42	-1.64	-1.35	-0.25	-0.05	-2.56	-3.8	-1.93	0.47	-1.83	-6.19	-3.57	-1.63	-2.54	-3.47	0.18	2.13	0.39	-1.94	-2.77	-2.63	-3.19	-6.76
θ (165°)	-4.02	-3.23	-2.53	-0.58	1.24	1.8	0.48	-1.67	-2.19	-1.97	-2.18	-2.77	-4.61	-3.96	-2.26	-1.8	-0.79	0.96	2.64	3.26	3.53	2.93	1.32	-1.35	-4.02
θ (180°)	-1.74	-0.95	0.19	1.73	2.84	3.42	[3.76]	3.52	3.42	2.69	1.12	-0.86	-1.55	-0.03	1.63	2.64	2.65	2.2	1.64	2.4	3.11	2.97	1.81	-0.05	-1.74

1SS																									
Freq (MHz)	5600																								
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°)	0.77	0.61	-0.25	-1.47	-2.84	-5.36	-8.57	-5.49	-2.74	-1.56	-0.2	0.42	0.1	-0.2	-0.62	-1.55	-3.18	-5.4	-8.94	-6.7	-4.02	-2.15	-0.82	0.09	0.77
θ (15°)	1.92	1.57	-0.98	-4.83	-4.41	-3.53	-3.1	-1.27	0.04	-0.07	-1.06	-0.33	1.12	1.61	0.68	-0.85	-3.08	-3.61	-1.73	0.15	1.61	2.52	2.43	1.88	1.92
θ (30°)	2.05	0.55	-2.73	-2.6	-3.66	-2.53	-3.37	-3.13	-1.89	0.79	1.72	-0.33	1.76	2.62	0.79	-0.76	-0.22	-0.63	-1.16	-1.59	-1.83	0.35	1.54	2.59	2.05
θ (45°)	2.27	0.87	-0.5	0.08	2.62	-0.48	-2.5	-1.29	-1.65	-2.42	0.25	-2.22	0.41	0.36	1.29	1.55	-0.94	1.63	3.27	1.72	1.6	-0.34	-0.9	-1.04	2.27
θ (60°)	1.04	1.16	1.66	0.51	3.34	1.67	-2.51	-1.34	-1.79	-1.21	-2.1	0.65	1.94	2.11	2.55	1.62	1.26	1.43	2.55	3.14	0.26	2.09	1.03	1	1.04
θ (75°)	-0.13	3.2	1.36	0.61	2.42	0.68	-0.1	-0.68	2.38	1.17	-2.86	0.44	2.88	2.43	3.31	2.66	3.01	2.46	4.14	4.55	0.95	2.16	1.97	3.01	-0.13
θ (90°)	-1.15	0.19	-0.56	0.35	-2.14	-0.97	4.52	1.63	0.81	0.99	-1.85	0.59	2.2	1.15	2.55	3.95	3.05	4.95	4.45	4.47	1.72	1.34	2.76	3.21	-1.15
θ (105°)	-0.19	0.78	0.56	0.17	-2.99	-0.47	4.31	-1.88	-1.9	1.53	0.31	2.06	3.23	1.68	2.8	3.11	3.31	1.53	2.57	2.66	0.29	0.82	4.65	4.17	-0.19
θ (120°)	1.74	1.69	-1.73	-0.22	-0.05	-4.3	-6.27	-3.36	-1.48	-0.16	2.81	3.17	4.48	3.75	4.45	1.97	1.35	1.58	3	3.08	-0.55	-0.63	3.17	4.25	1.74
θ (135°)	0.1	0.79	0.34	0.23	-3.16	-7.3	-4.29	-5.65	0.39	0.55	4.77	5.78	5.85	5.72	2.3	1.9	1.72	2.62	2.68	1.11	0.25	0.83	3.41	5.24	0.1
θ (150°)	0.24	2.29	2.6	-1.72	-2.73	-2.78	-1.72	-1.85	-2.02	0.58	2.57	2.57	5.37	[6.11]	3.64	3.09	-1.06	0.86	0.97	-0.13	-0.54	0.41	-0.93	1.47	0.24
θ (165°)	1.71	-0.21	0.09	-0.48	-2.14	-4.42	-3.76	-4.61	-4.03	-0.58	0.46	0.43	-0.14	0.43	1.68	3.02	2.94	2.82	2.09	1.31	2.34	2.52	2.49	2.72	1.71
θ (180°)	5.22	5.05	4.71	4.28	3.27	1.76	-0.35	0.83	2.72	4.05	4.85	5.56	5.72	5.72	5.72	5.02	3.75	1.73	-0.41	0.89	2.98	4.29	5.11	5.37	5.22
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°)	-7.88	-5.14	-2.91	-1.21	-0.29	0.45	0.53	0.05	-0.48	-1.94	-4.15	-6.73	-8.14	-5.78	-3.73	-1.94	-0.62	-0.01	0.1	-0.07	-0.66	-1.63	-3.15	-5.73	-7.88
θ (15°)	-11.69	-5.32	-1.69	-1.49	-2.29	-1.9	-2.01	-2.73	-1.95	-1.23	0.1	-0.7	-1.62	-2.03	-1.23	0.54	1.72	1.87	1.4	0.1	-0.25	-0.85	-2.28	-4.74	-11.69
θ (30°)	-11.26	-7.33	-5.9	-2.64	-0.55	-0.16	-0.9	-1.53	-1.87	-1.79	-2.06	-0.34	-4	-4	-1.47	-1.24	-1.13	0.29	-0.15	0	0.22	-0.31	1	-2.46	-11.26
θ (45°)	-3.31	-3.07	-5.3	-6.23	-0.28	-0.04	-0.39	-1.05	-0.97	-1.56	-4.34	-3.85	-7.74	-7.42	-2.24	0.07	0.93	-0.23	0.15	1.07	-0.65	-2.3	-0.87	0.83	-3.31
θ (60°)	-6.58	-8.82	-3.97	-2.27	-1.29	-3.08	0.29	1.04	-0.77	1.15	-3.5	-2.64	-9.74	-8.82	-0.14	-0.74	-0.47	-2.45	-2.66	-4.11	-0.93	-3.33	-1.58	-2.38	-6.58
θ (75°)	-8.29	-4.87	-4.57	-2.14	-3.58	0.29	-1.48	-4.38	-3.22	-1.6	-2.79	-4.77	-4.26	-7.9	-0.36	-0.27	-0.69	-2.68	-2.31	-0.36	-0.88	-0.87	-0.6	-3.07	-8.29
θ (90°)	-5.06	-3.43	-3.44	-4.28	-1.11	1.96	1.5	-1.2	0.96	1.22	-1.83	-4.63	-5.8	-7.69	0.18	0.49	1.47	1.53	-0.44	-1.85	-1.13	-1.74	0.97	-5.15	-5.06
θ (105°)	-2.37	-2.2	-0.92	0.26	1.53	-1.26	-0.93	0.05	-1.04	-1.36	-1.35	-3.46	-7.05	-7.11	-2.8	-2.1	-1	-1.62	-1.8	-2.91	-2.34	-3.22	-2.19	-3.15	-2.37
θ (120°)	-5.02	-3.28	-1.2	-3.29	-6.24	-1.85	-1.83	-1.13	-1.73	-3.47	-0.9	-1.67	-0.76	-7.61	-3.81	-0.97	-0.67	-2.59	-2.51	-4.16	-4.42	-2.46	-2.48	-2.79	-5.02
θ (135°)	-4.57	-2.8	-1.75	-0.12	-1.03	-0.15	0.86	0.86	-1.74	-1.69	-4.59	-2.18	-10.28	-2.67	-3.88	-2.85	-1.47	-1.2	-2.66	-2.23	-0.36	-1.35	-1.64	-3.93	-4.57
θ (150°)	-5.98	-3.04	-0.25	-1.79	-1.77	-1.2	-0.67	-2.87	-5.26	-1.38	0.32	-1.27	-4.2	-2.4	-0.57	0.85	-0.2	-1.24	1.28	2.34	2.34	-1.43	-5.17	-1.29	-5.98
θ (165°)	-7.25	-10.41	-4.85	0.06	1.96	2.44	0.47	-0.95	-0.66	-0.6	-1.61	-3.72	-4.06	-2.67	-1.97	-2.74	-1.24	1.6	3.95	4.46	3.96	3.13	2.34	0.18	-7.25
θ (180°)	-0.02	0.51	1.5	2.51	3.88	4.75	4.84	[5.03]	4.94	4.47	3.94	2.44	0.29	0.63	2.5	3.69	3.74	3.58	3.75	4.09	4.93	5	3.91	2.45	-0.02

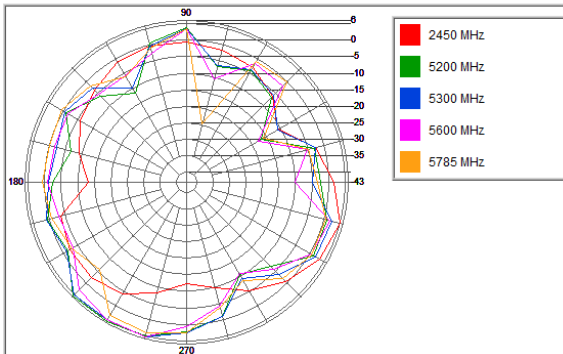
1SS																										
Freq (MHz)	5785																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)	
dB	φ (0°)	2.31	2.29	2.08	1.3	-0.41	-3.35	-6.82	-7.13	-3.19	-0.69	0.7	1.83	2.77	3.02	2.59	1.54	-0.1	-3.11	-6.91	-6.4	-2.55	-0.27	1.36	2.08	2.31
θ (0°)		2.98	1.56	-0.1	-1.53	-3.19	-2.76	-2.62	-3.19	-4.49	-3.51	-1.55	-0.39	0.81	1.11	-0.33	-1.48	-2.22	-3.22	-4.9	-3.39	-1.06	1.14	2.65	3.27	2.98
θ (15°)		3.84	2.59	-2.38	-5.31	-3.2	-1.29	-1.59	-3.31	-2.79	-1.82	-1.65	0.43	0.98	1.77	-1.61	-1.11	0.19	-0.35	-0.42	0.68	-0.2	-3.43	1.5	4.12	3.84
θ (30°)		0.25	-2.45	-2.48	1.18	1.59	-0.86	-0.27	-1.69	-1.83	-1.84	-2.02	0.57	1.99	0.78	-1.75	-0.08	-0.53	1.29	1.48	1.81	1.29	-0.77	1.34	-0.01	0.25
θ (45°)		1.76	-0.93	0.78	1.37	3.37	-1.91	-2.62	-2.2	-1.23	0.33	-3.94	-0.17	2.21	1.8	0.77	-1.27	0.78	2.52	4.46	3.66	0.99	1	0.49	1.23	1.76
θ (60°)		1.08	0.78	2.16	1.15	1.88	-2.45	-0.66	-0.18	-0.24	0.98	-1.53	0.95	3.71	1.85	4.39	2.16	1.34	3.46	4.74	3.38	-0.26	0.86	2.22	3.07	1.08
θ (75°)		-1.73	0.09	-1.26	0.58	-0.55	-1.5	4.95	1.55	0.58	2.59	0.12	3.26	4.64	2.18	2.64	0.99	0.84	2.14	3.73	3.5	0.18	1.27	0.98	2.82	-1.73
θ (90°)		-2.09	-0.96	0.7	1.58	0.29	1.91	4.85	-1.3	-1.04	1.35	0.28	4.05	3.9	3.1	2.61	2.54	4.22	2.56	2.8	2.61	2.14	0.92	2.91	2.99	-2.09
θ (105°)		1.93	-0.88	-2.04	-2.97	-0.77	-3.23	-3.6	-2.19	-4.54	0.4	2.3	2.23	4.75	4.53	3.02	1.87	1.21	2.44	3.4	2.68	1.58	2.34	3.66	3.44	1.93
θ (120°)		0.29	-0.5	-0.82	0.61	-2.48	-10.02	-7.27	-3.43	0.75	0.02	5.39	5.9	5.46	5.7	3.59	3.37	2.51	2.87	0.69	1.5	0.22	1.37	3.04	4.65	0.29
θ (135°)		1.23	2.93	2.99	-0.9	-2.24	-4.08	-2.77	-2.47	-2.85	0.33	2.36	4.14	5.59	5.25	1.77	3.37	1.03	-0.55	-1.1	-2.54	-0.46	1.76	0.47	2.21	1.23
θ (150°)		2.83	1.16	-0.21	-0.91	-2.22	-4.22	-6.6	-5.84	-3.14	-1.72	-1.43	-1.03	-1.11	0.55	1.82	2.81	2.83	2.5	2.33	2.53	3.4	3.24	2.73	2.76	2.83
θ (165°)		6.02	5.78	5.01	3.93	3	1.42	-0.82	0.12	2.74	4.52	5.67	6.36	[6.52]	6.23	5.62	4.91	3.4	1.35	-0.9	0.09	2.74	4.58	5.69	6.03	6.02
Polarity	Phi																									
		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°)	
dB	φ (0°)	-7.39	-5.68	-2.68	-0.54	0.83	1.89	2.51	2.73	2.24	0.91	-1.29	-4.53	-7.76	-6.1	-2.55	-0.02	1.85	2.81	3	2.97	2.36	1.4	-0.74	-4.63	-7.39
θ (0°)		-4.6	-1.48	-0.22	0.95	1.29	1.29	1.36	1.62	1.55	0.6	-0.87	-4.1	-7.18	-5.4	-1.67	-0.67	-0.41	-0.09	-0.38	-1.67	-1.6	-1.36	-1.63	-2.28	-4.6
θ (15°)		-6.33	-7.93	-6.24	-5.44	-3.64	-1.5	-1.8	-1.91	-0.43	-1.14	-3.48	-3.02	-5.24	-7.54	-2.42	-2.07	-3.6	-3.69	-1.6	-1.59	-1.42	1	0.74	-1.52	-6.33
θ (30°)		-3.43	-4.48	-5.94	-5.59	-0.99	-0.61	-0.82	0.83	0.55	-1.09	-4.94	-3.1	-13.14	-2.66	-0.92	-0.79	-0.02	0.59	1.55	0.95	-2.33	-2.61	-0.83	1.53	-3.43
θ (45°)		-6.18	-7.19	-4.42	-1.46	-1.34	-0.49	0.85	1.57	0.85	1	-1.91	-0.88	-6.44	-4.47	-2.54	-0.44	-2.02	-6.81	-4.31	-1	1.18	-2.17	-1.93	-0.85	-6.18
θ (60°)		-7.69	-9.5	-3.44	-5.05	-1.84	-1.6	-0.31	-1.9	-2.03	0.04	-1.11	-2.07	-5.02	-6.31	-0.13	-1.7	-1.55	-4.12	-2.1	0.63	-0.76	-0.39	-0.5	-1.67	-7.69
θ (75°)		-2.52	-1.4	-3.88	-4.45	-2.68	1.52	0.54	-1.66	1.62	1.42	1.34	-1.3	-4.28	-4.45	-2.32	0.42	-0.3	-0.8	-1.42	1.02	-1.42	-0.76	1.6	-2.51	-2.52
θ (90°)		-1.06	0.47	-3.16	-0.36	1.31	-1.52	-0.64	-2.13	-3.65	-1.84	-2.1	-5.36	-6.74	-4.71	-3.91	-1.37	-0.74	-0.56	-2.46	-2.23	-4.36	-2.87	-2.42	-3.26	-1.06
θ (105°)		-3.53	-1.27	-1.01	-4.77	-5.55	-0.93	-1.39	0.04	0.16	-5.72	-1.1	-3.43	-0.87	-5.43	-2.95	1.69	-0.81	-0.27	0.24	-3.61	-2.32	-3.57	-1.15	-4.68	-3.53
θ (120°)		-5.06	-3.63	-3.65	-2.2	-0.99	0.09	0.69	0.65	-0.94	-0.28	-0.41	-2.73	-7.17	-4.72	-3.51	-2.41	-1.84	-0.7	-0.33	-1.5	-1.57	-1.44	-0.38	-3.02	-5.06
θ (135°)		-5.17	-3.64	1.6	-2	-6.4	-0.76	-0.35	-2.53	-5.81	-3.91	0.72	0.15	-3.43	-3.12	0.95	1.75	-0.32	-4.14	-1.49	0.64	2.07	-0.19	-3.33	-0.11	-5.17
θ (150°)		-7.93	-7.51	-4.37	-0.72	2.1	2.45	0.83	-1.53	-3.46	-3.09	-2.65	-4.8	-3.42	-3.19	-4.29	-2.16	0.23	2.54	3.87	3.81	3.87	3.43	1.78	-0.34	-7.93
θ (165°)		0.32	-0.28	0.56	2.65	4.59	5.26	5.64	[5.65]	4.9	3.84	2.76	1.56	-0.44	-0.21	1.82	3.62	4.1	4.59	4.36	4.44	4.93	4.63	3.54	2.29	0.32
θ (180°)																										

A.2 Antenna Pattern Test Plots

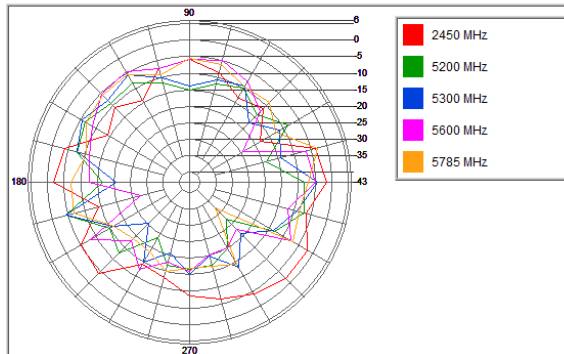


X-Y Plane (Ant 2)

Ant 2, Theta, XY-Plan

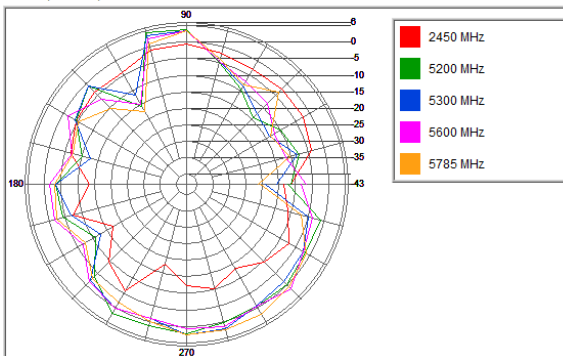


Ant 2, Phi, XY-Plan

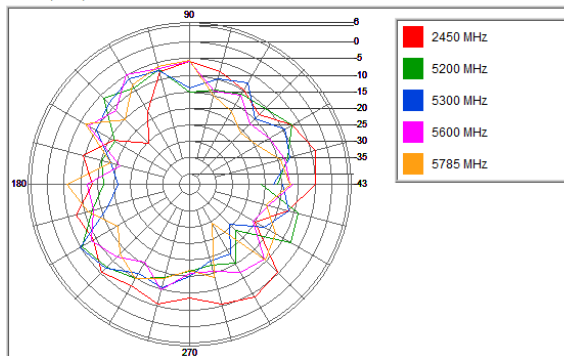


Y-Z Plane (Ant 2)

Ant 2, Theta, YZ-Plan

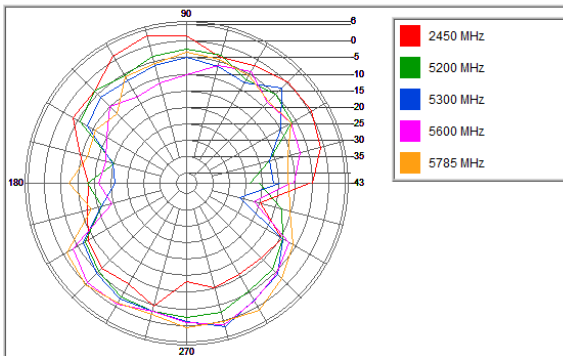


Ant 2, Phi, YZ-Plan

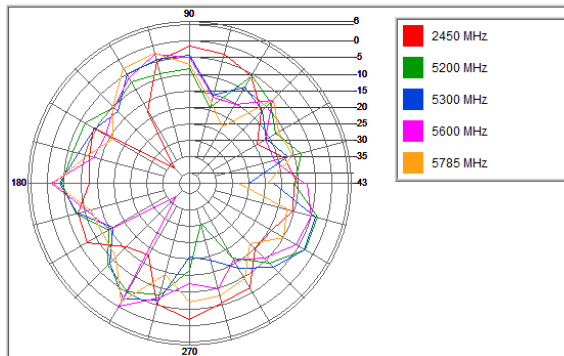


Z-X Plane (Ant 2)

Ant 2, Theta, XZ-Plan

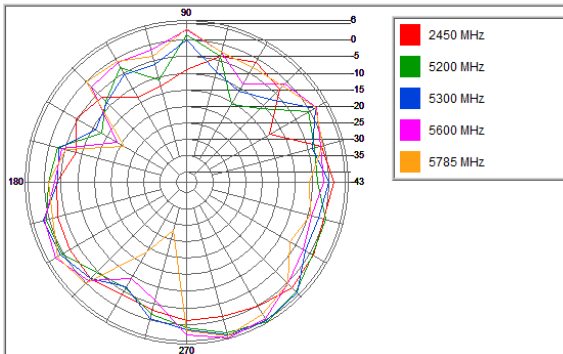


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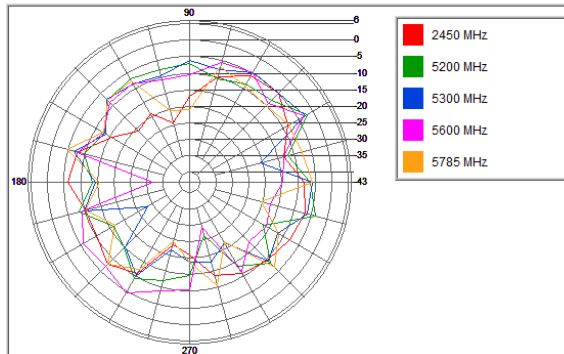


X-Y Plane (Ant 3)

Ant 3, Theta, XY-Plan

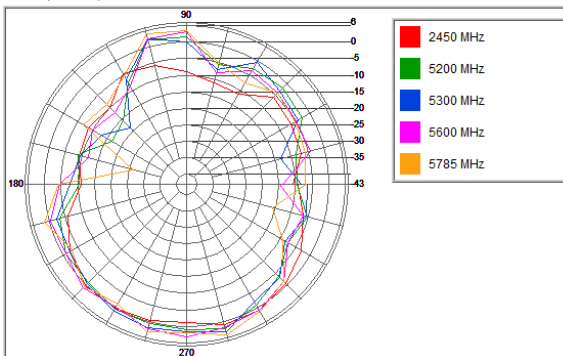


Ant 3, Phi, XY-Plan

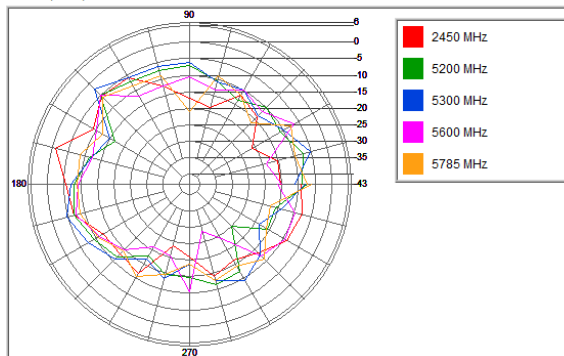


Y-Z Plane (Ant 3)

Ant 3, Theta, YZ-Plan

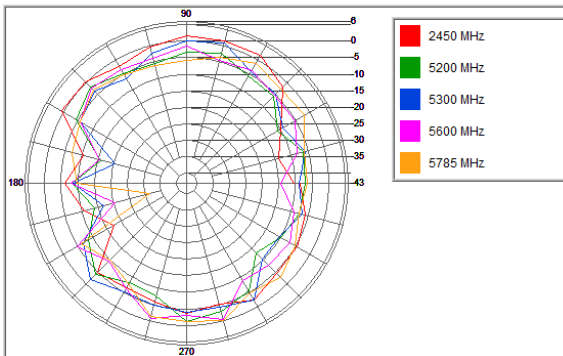


Ant 3, Phi, YZ-Plan

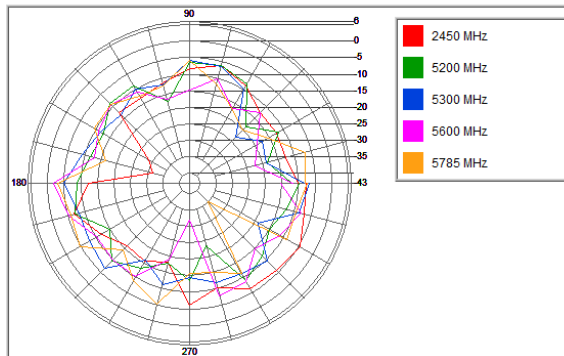


Z-X Plane (Ant 3)

Ant 3, Theta, XZ-Plan

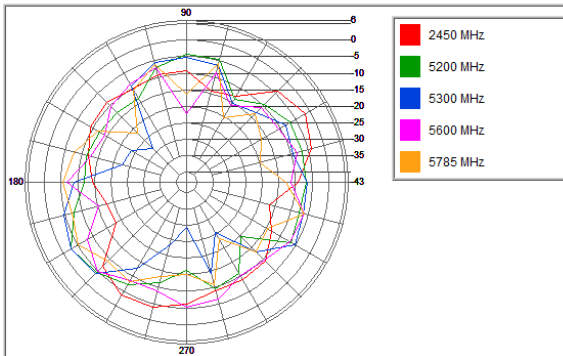


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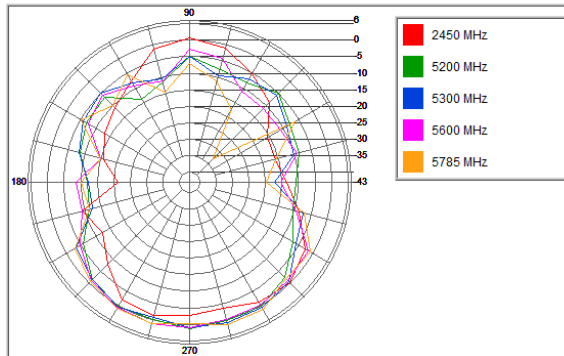


X-Y Plane (Ant 4)

Ant 4, Theta, XY-Plan

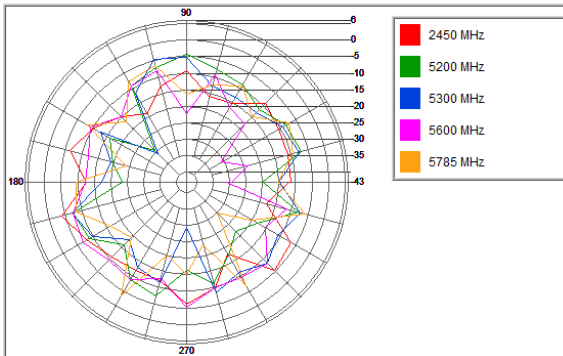


Ant 4, Phi, XY-Plan

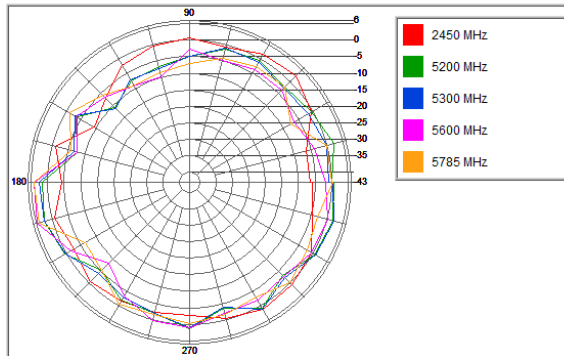


Y-Z Plane (Ant 4)

Ant 4, Theta, YZ-Plan

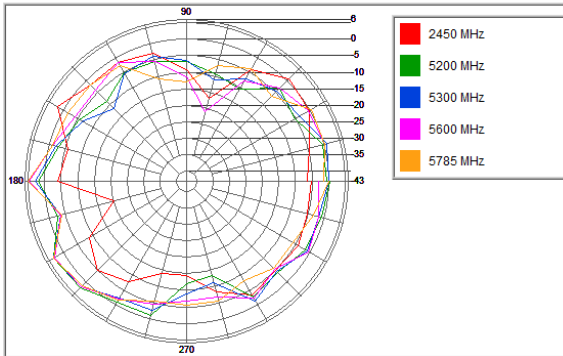


Ant 4, Phi, YZ-Plan

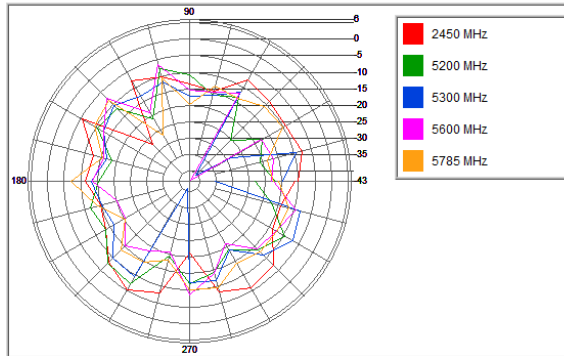


Z-X Plane (Ant 4)

Ant 4, Theta, XZ-Plan



Ant 4, Phi, XZ-Plan



APPENDIX B –Information of the Testing Laboratories

B.1 Antenna Location (Configuration and RF Chains)

Please refer to the documents “OPBEIH-WTW-P25030743-7_Arcadyan_TMO-G5AR_Antenna measurement Report_APPENDIX”

B.2 Test Setup Diagram for EUT

Please refer to the documents “OPBEIH-WTW-P25030743-7_Arcadyan_TMO-G5AR_Antenna measurement Report_APPENDIX”

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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Web Site: www.bureauveritas-adt.com

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

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