

FCC Composite Gain Test Report

TP-Link Systems Inc.
10 Mauchly, Irvine, CA 926187



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Basic Information

EUT Description:	BE9700 Tri-Band Wi-Fi 7 Router		
Brand Name:	tp-link		
Model Name:	Archer BE550 Pro		
Tested By:	Yu Sunli Yu. Sunli	Date:	2024/11/20

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1 Operation Mode and Antenna Information

1.1 EUT Operation Mode

The Archer BE550 Pro is the Tri-band wireless router of 6 internal antennas, of which 1 were 2.4G & 5GL Dual-Band antennas and 2 were 2G antennas and 1 were 5G antennas and 2 were 6G antennas

1.2 Antenna Information

The Antennas are internal , the Locations of Antennas are shown below:

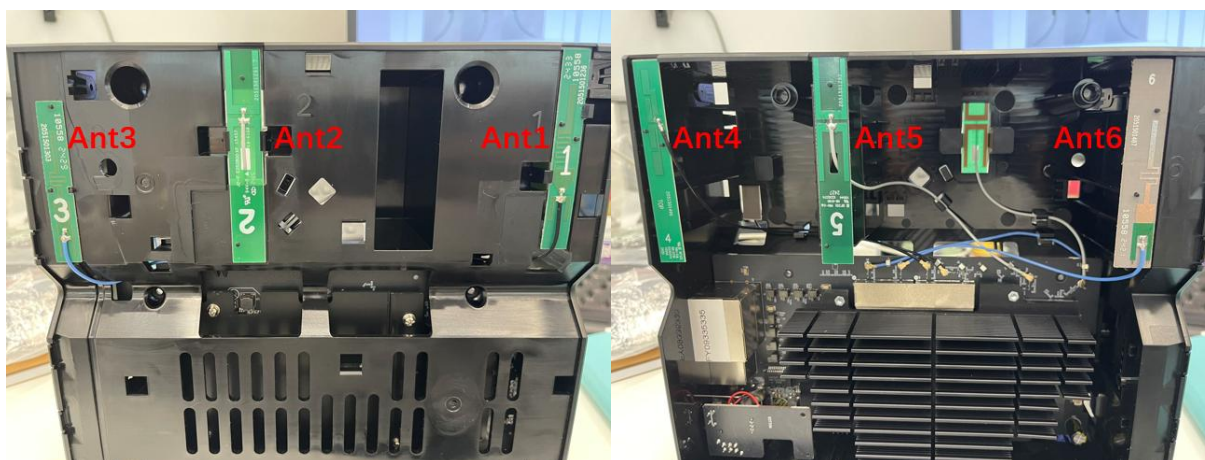


Figure 1- 1 Locations of Antennas

The Antenna Information was shown below:

Table 1- 1 Antenna Information

Antenna Position	Antenna Type	Connector	Mode of operation
Ant1	Dipole	ipex	5G
Ant2	Dipole	ipex	2.4G
Ant3	Dipole	ipex	6G
Ant4	Dipole	ipex	2.4G&5G
Ant5	Dipole	ipex	2.4G
Ant6	Dipole	ipex	6G

1.3 Test Frequency

The Listed frequency of each bands are selected to represent each frequency bands.

Table 1- 2 Test Frequency

Frequency Band(MHz)	Test Frequency(MHz)
2400-2483.5	2450
5150-5250	5200

5250-5350	5300
5470-5725	5600
5725-5850	5800
5925-6425	6175
6425-6525	6475
6525-6875	6725
6875-7125	7025

2 Test System

2.1 Test Equipment

Table 2- 1Test System

Equipment	Model	Manufacturer	S/N	Cali. Interval	Cali. Due Date
Chamber	Rayzone2800	GTS	MY53470435	12months	2025/04/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2026/05/27

2.2 Test Software

Table 2- 2 Test Software

Software	Version	Function
GTS MaxSign100	V2.1	Passive Antenna Measurements

3 Test Summary

3.1 Measurement Environment

This measurement experiment adopted an antenna near-field measurement system, and the diagram of the measurement system was shown in Figure 3-1. The excitation signal was generated by the Keysight E5071C (300kHz-20GHz). Under the control of the central computer, the probe rotated in the θ direction, and the EUT rotated in the ϕ direction with the turntable. The probe sampling frame received and collected signals in the near-field range of the EUT. The software system which was controlled by the central computer completed the processing, output and display of the test data.

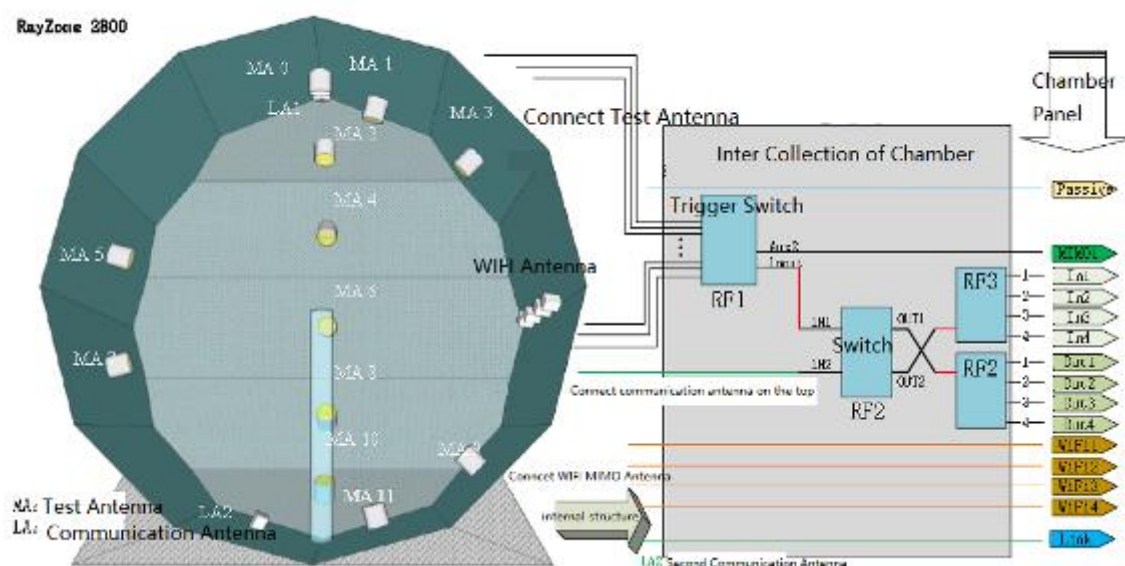


Figure 3- 1 Schematic diagram of antenna near-field measurement system

The test site was a full anechoic chamber with a size of 3.0m×3.1m×2.97m, which was built by GTS Rayzone2800. All six surfaces of the anechoic chamber were pasted with absorbing materials. And the chamber was calibrated by the authoritative third-party lab every year. The antenna anechoic chamber measurement system adopted a 13-probe multi-probe system. The probe antennas were evenly distributed on the spherical surface surrounding the EUT, and their operating frequency was 600MHz~8.5GHz.

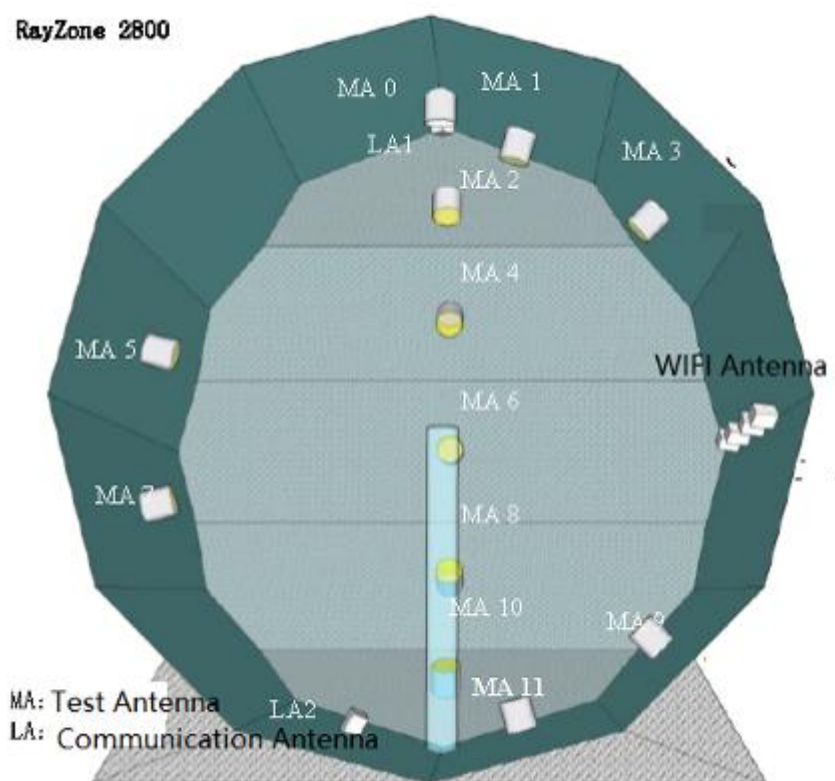


Figure 3-2 Antenna anechoic chamber for near-field measurement

During the measurement, the probe antennas were rotated in the θ direction under the control of the probe holder to sample the near-field data at the θ angle. At the same time, the EUT rotated with the turntable in the ϕ direction to sample the near field data at the ϕ angle. The system diagram was shown in Figure 3-3. From the sampling results, the EUT's near-field test data of θ component, ϕ component and total component could be obtained.

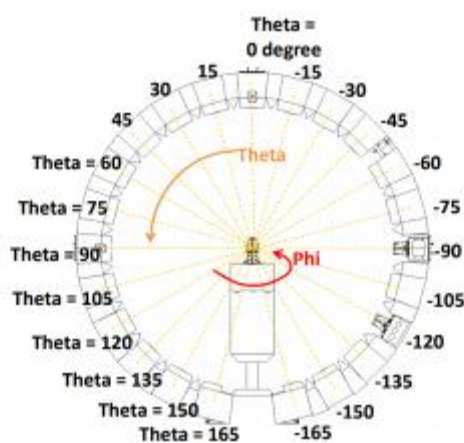


Figure 3-3 System diagram

Before the measurement, calibrated the vector network analyzer, and then connected the input end of each antenna to the output end of the vector network analyzer, and evenly the antennas to be measured. The Calibration information was shown in table 2-1.

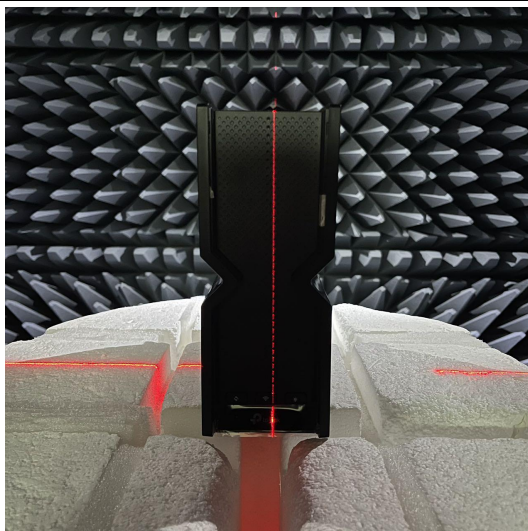


Figure 3-4 Antennas measurement diagram

Table 3- 1 Calibration information

Measurement Class	Standard
Cal Type	2p/1-2
Cal Kit	N4691B

3.2 Measurement Quantity

In this measurement experiment, the Directional Gain was measured at a certain frequency interval within the whole frequency range. The measurement frequency interval of the 2.4G antennas was 10MHz, while the 5G and 6G antennas was 50MHz.

3.3 Test Method

During the measurement, the probe antennas were rotated in the θ direction under the control of the probe holder to sample the near-field data at the θ angle. At the same time, the EUT rotated with the turntable in the ϕ direction to sample the near field data at the ϕ angle. The sampling accuracy was 15° . The system diagram was shown in Figure 2-6. From the sampling results, the EUT's near-field test data of θ component, ϕ component and total component could be obtained.

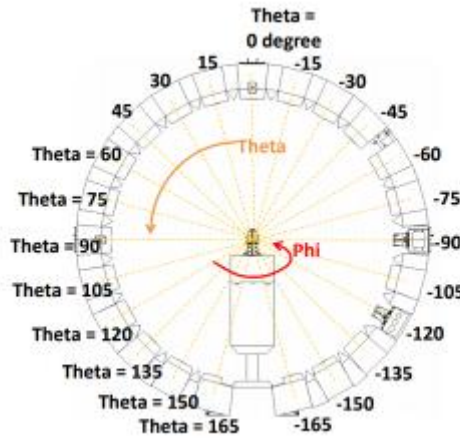


Figure 3-5 Test angle

3.4 Directional Gain Calculations

Multiple antennas system, each of which has one of two (or three) polarizations that are orthogonal to one another (i.e., cross polarized), The total gain—including array gain—is computed separately for each of the two (or three) polarizations using the procedures presented in this document. The highest of the total gains shall apply.

Theoretical Directional Gain represented the theoretical value calculated by formula 2-1. As we all know, the effect of array gain must be included in the calculation of overall directional antenna gain for devices that transmit on multiple outputs simultaneously in the same band, in the same or in overlapping frequency ranges. Therefore, in formula 2-1, the directional gain calculation needs to include all directions and all Frequencies and all Polarizations, and then take the maximum value as the final directional gain value. Therefore, the calculation formula of theoretical directional gain value can be modified as formula 2-2

$$\text{Directional Gain} = 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \quad (2-1)$$

Where

N_{SS} = the number of independent spatial streams of data; $N_{SS} = 1$.

N_{ANT} = the total number of antennas: $N_{ANT} = 4$ for 2.4G & 5G antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna .

$$\text{Directional Gain} = \text{Maximum} \left[10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \right] \quad (2-2)$$

Maximum function is the max directional gain overall directions and all frequency all polarizations.

3.5 Test Procedure

The calculation method of DG (Directional Gain) in this scheme is summarized as follows:

- 1) The antenna anechoic chamber is used to measure the gain of each antenna, the gain of each antenna at this angle is taken every 15° to calculate the Directional Gain;
- 2) Use formula below to calculate and the Directional Gain of the system at this angle is obtained

$$\text{Directional Gain} = 10\log \left[\frac{\sum_{j=1}^{N_{ST}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \quad (2-3)$$

- 3) For each frequency point, the Directional Gain value under 24 different angles can be obtained, and finally the maximum value is taken as the system Directional Gain value.

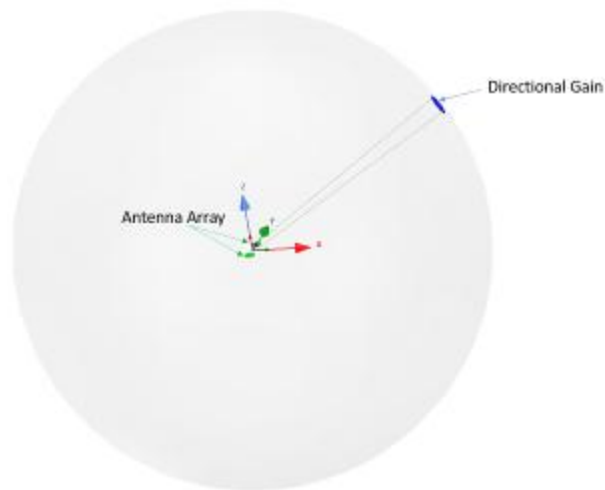


Figure 3- 6 Directional Gain Calculation Sketch Map

4 Measured Value and Maximum Gain Positions

4.1 Antenna Number

The Antennas number for measured in the following section was shown below:

Table 4- 1 Antennas number

Antenna Number	Antenna Position		
	2G	5G	6G
Ant1	Ant2	Ant1	Ant3
Ant2	Ant4	Ant4	Ant6
Ant3	Ant5		

4.2 2G

4.2.1 DG_1SS Max Value Position

Table 4- 2 DG_1SS Max Value Position

Frequency(GHz)	2.45
Ant1(dBi)	2.70
Ant2(dBi)	4.55
Ant3(dBi)	1.40
Polarization	Theta
Φ (°)	225
θ (°)	90

4.2.2 DG_1SS Max Value Position Calculation

Table 4- 3 DG_1SS Max Value Position Calculation

Frequency(GHz)	2.45
Ant1[$10^{(G/20)}$]	$10^{(2.70/20)}$
Ant2[$10^{(G/20)}$]	$10^{(4.55/20)}$
Ant3[$10^{(G/20)}$]	$10^{(1.40/20)}$
Ant1[$10^{(G/20)}$] value	1.365
Ant2[$10^{(G/20)}$] value	1.688
Ant3[$10^{(G/20)}$] value	1.175
Sum of Ants Value(Antmax)	4.228
DG[$10 \cdot \log(\text{Antmax}^2 / N_{\text{ant}})$] (dBi)	7.75

4.2.3 DG_3SS Max Value Position

Table 4- 4 DG_3SS Max Value Position

Frequency(GHz)	2.45
Ant1(dBi)	2.70
Ant2(dBi)	4.55
Ant3(dBi)	1.40
Polarization	Theta
Φ (°)	225
θ (°)	90

4.2.4 DG_3SS Max Value Position Calculation

Table 4- 5 DG_3SS Max Value Position Calculation

Frequency(GHz)	2.45
Ant1[$10^{(G/10)}$]	$10^{(2.70/10)}$
Ant2[$10^{(G/10)}$]	$10^{(4.55/10)}$
Ant3[$10^{(G/10)}$]	$10^{(1.40/10)}$
Ant1[$10^{(G/10)}$] value	1.862
Ant2[$10^{(G/10)}$] value	2.851
Ant3[$10^{(G/10)}$] value	1.380
Sum of Ants Value(Antmax)	6.093
DG[$10 \cdot \log(\text{Antmax}/N_{\text{ant}})$] (dBi)	3.08

4.3 5G

4.3.1 DG_1SS Max Value Position

Table 4- 6 DG_1SS Max Value Position

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1(dBi)	7.07	7.39	6.21	4.62
Ant2(dBi)	4.66	4.42	2.89	2.67
Polarization	Theta	Theta	Theta	Theta
Φ (°)	105	90	105	120
θ (°)	90	90	75	75

4.3.2 DG_1SS Max Value Position Calculation

Table 4- 7 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1[$10^{(G/20)}$]	$10^{(7.07/20)}$	$10^{(7.39/20)}$	$10^{(6.21/20)}$	$10^{(4.62/20)}$

Ant2[10^{^(G/20)}]	10 ^{^(4.66/20)}	10 ^{^(4.42/20)}	10 ^{^(2.89/20)}	10 ^{^(2.67/20)}
Ant1[10^{^(G/20)}] value	2.257	2.342	2.044	1.702
Ant2[10^{^(G/20)}] value	1.710	1.663	1.395	1.360
Sum of Ants Value(Antmax)	3.967	4.005	3.439	3.062
DG[10*Log(Antmax²/Nant)] (dBi)	8.96	9.04	7.72	6.71

4.3.3 DG_2SS Max Value Position

Table 4- 8 DG_2SS Max Value Position

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1(dBi)	8.23	7.39	6.21	6.22
Ant2(dBi)	1.70	4.42	2.89	-0.63
Polarization	Theta	Theta	Theta	Theta
Φ (°)	75	90	105	270
θ (°)	90	90	75	90

4.3.4 DG_2SS Max Value Position Calculation

Table 4- 9 DG_2SS Max Value Position Calculation

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1[10^{^(G/10)}]	10 ^{^(8.23/10)}	10 ^{^(7.39/10)}	10 ^{^(6.21/10)}	10 ^{^(6.22/10)}
Ant2[10^{^(G/10)}]	10 ^{^(1.70/10)}	10 ^{^(4.42/10)}	10 ^{^(2.89/10)}	10 ^{^(-0.63/10)}
Ant1[10^{^(G/10)}] value	6.653	5.482	4.178	4.188
Ant2[10^{^(G/10)}] value	1.479	2.767	1.945	0.865
Sum of Ants Value(Antmax)	8.132	8.249	6.123	5.053
DG[10*Log(Antmax/Nant)] (dBi)	6.09	6.15	4.86	4.03

4.4 6G

4.4.1 DG_1SS Max Value Position

Table 4- 6 DG_1SS Max Value Position

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1(dBi)	3.24	5.61	6.32	4.17
Ant2(dBi)	5.59	4.50	1.95	2.10
Polarization	Theta	Theta	Theta	Theta
Φ (°)	255	255	270	285
θ (°)	90	90	90	90

4.4.2 DG_1SS Max Value Position Calculation

Table 4- 7 DG_1SS Max Value Position Calculation

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1[10 ^{^(G/20)}]	$10^{(3.24/20)}$	$10^{(5.61/20)}$	$10^{(6.32/20)}$	$10^{(4.17/20)}$
Ant2[10 ^{^(G/20)}]	$10^{(5.59/20)}$	$10^{(4.50/20)}$	$10^{(1.95/20)}$	$10^{(2.10/20)}$
Ant1[10 ^{^(G/20)}] value	1.452	1.908	2.070	1.616
Ant2[10 ^{^(G/20)}] value	1.903	1.679	1.252	1.274
Sum of Ants Value(Antmax)	3.355	3.587	3.322	2.890
DG[10*Log(Antmax ² /Nant)] (dBi)	7.50	8.08	7.42	6.21

4.4.3 DG_2SS Max Value Position

Table 4- 8 DG_2SS Max Value Position

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1(dBi)	3.24	5.61	6.32	4.17
Ant2(dBi)	5.59	4.50	1.95	2.10
Polarization	Theta	Theta	Theta	Theta
Φ (°)	255	255	270	285
θ (°)	90	90	90	90

4.4.4 DG_2SS Max Value Position Calculation

Table 4- 9 DG_2SS Max Value Position Calculation

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1[10 ^{^(G/10)}]	$10^{(3.24/10)}$	$10^{(5.61/10)}$	$10^{(6.32/10)}$	$10^{(4.17/10)}$
Ant2[10 ^{^(G/10)}]	$10^{(5.59/10)}$	$10^{(4.50/10)}$	$10^{(1.95/10)}$	$10^{(2.10/10)}$
Ant1[10 ^{^(G/10)}] value	2.109	3.639	4.285	2.612
Ant2[10 ^{^(G/10)}] value	3.622	2.818	1.567	1.622
Sum of Ants Value(Antmax)	5.731	6.457	5.852	4.234
DG[10*Log(Antmax/Nant)] (dBi)	4.57	5.09	4.66	3.26

5 Test and Calculate Result

5.1 Antenna Test Result

Table 5- 1 Antenna Test Result

Frequency(GHz)	2.45	5.20	5.30	5.60	5.80	6.175	6.475	6.725	7.025
Ant1 MaxGain(dBi)	5.34	8.23	7.84	7.05	6.22	5.44	5.95	6.32	4.79
Ant2 MaxGain(dBi)	4.55	4.92	4.42	5.13	4.03	5.59	4.54	4.15	3.71
Ant3 MaxGain(dBi)	3.16								

Ant1 Polarization/ Φ (°) / θ (°)	Theta/ 210/105	Theta/ 75/90	Theta/ 90/90	Theta/ 270/90	Theta/ 270/90	Theta/ 270/90	Theta/ 285/90	Theta/ 270/90	Theta/ 270/90
Ant2 Polarization/ Φ (°) / θ (°)	Theta/ 225/90	Theta/ 165/90	Theta/ 75/90	Theta/ 90/90	Theta/ 120/90	Theta/ 255/90	Theta/ 240/90	Theta/ 120/90	Theta/ 330/90
Ant3 Polarization/ Φ (°) / θ (°)	Theta/ 225/105								
Max Gain(dBi)	5.34	8.23	7.84	7.05	6.22	5.59	5.95	6.32	4.79

5.2 Directional Gain Calculate Result

Table 5- 2Test & Calculate Result

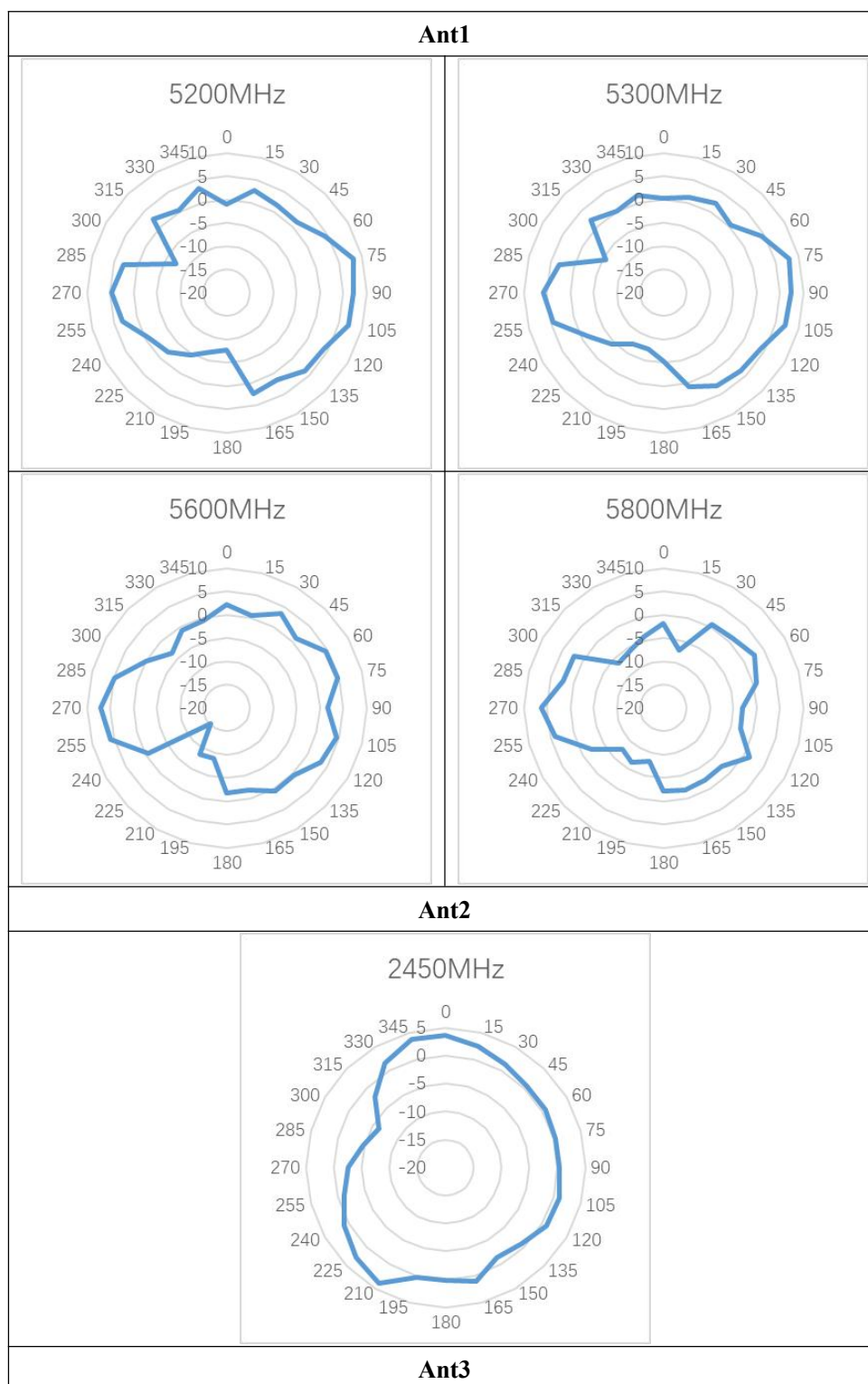
Frequency Band(MHz)	Max Antenna Gain	Max Composite Gain	NSS	Polarization/ Φ (°) / θ (°)
2400-2483.5(2450)	5.34	7.75	1	Theta/225/90
5150-5250(5200)	8.23	8.96	1	Theta/105/90
5250-5350(5300)	7.84	9.04	1	Theta/90/90
5470-5725(5600)	7.05	7.72	1	Theta/105/90
5725-5850(5800)	6.22	6.71	1	Theta/120/75
5925-6425(6175)	5.59	7.50	1	Theta/255/90
6425-6525(6475)	5.95	8.08	1	Theta/255/90
6525-6875(6725)	6.32	7.42	1	Theta/270/90
6875-7125(7025)	4.79	6.21	1	Theta/285/90

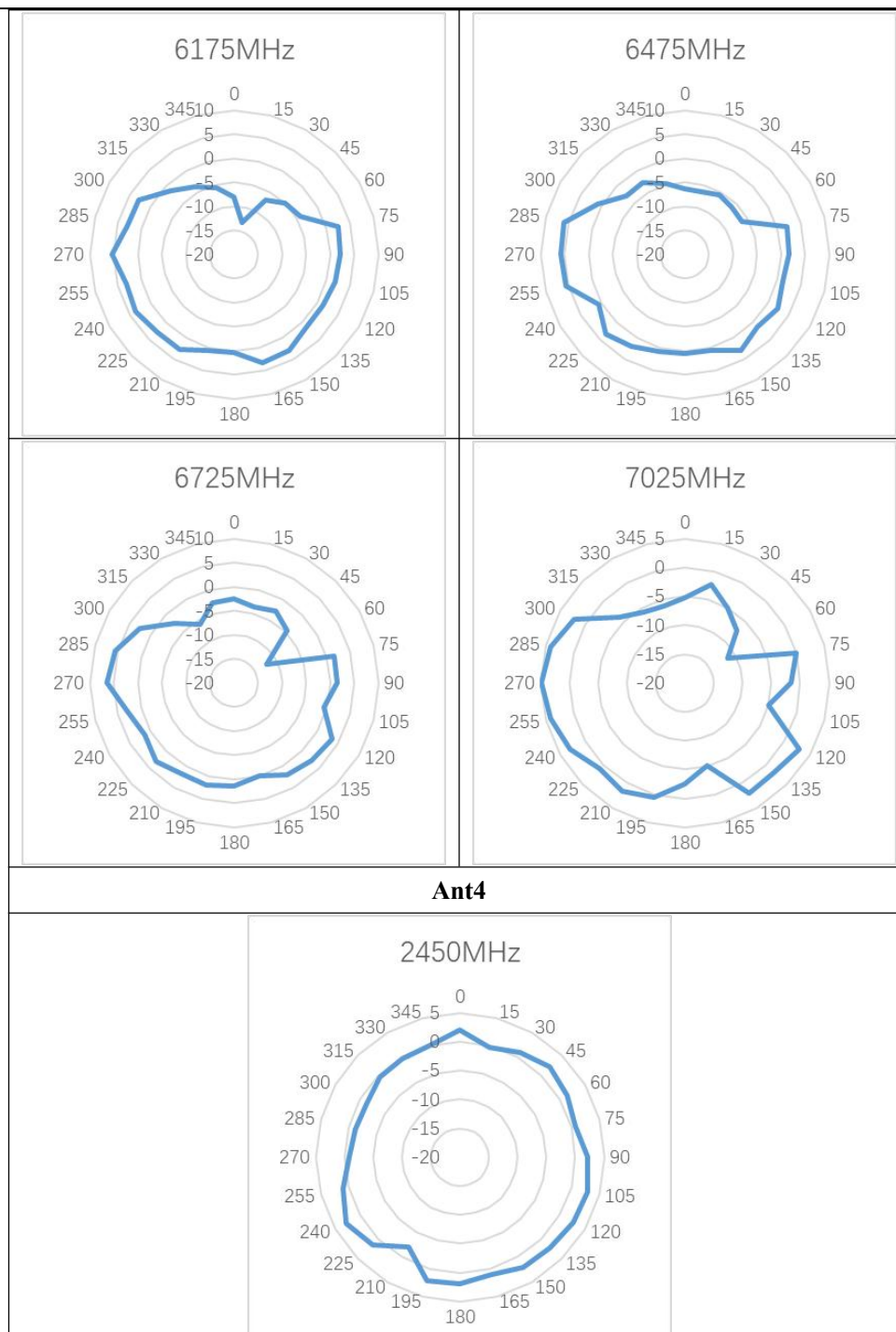
Table 5- 3Test & Calculate Result

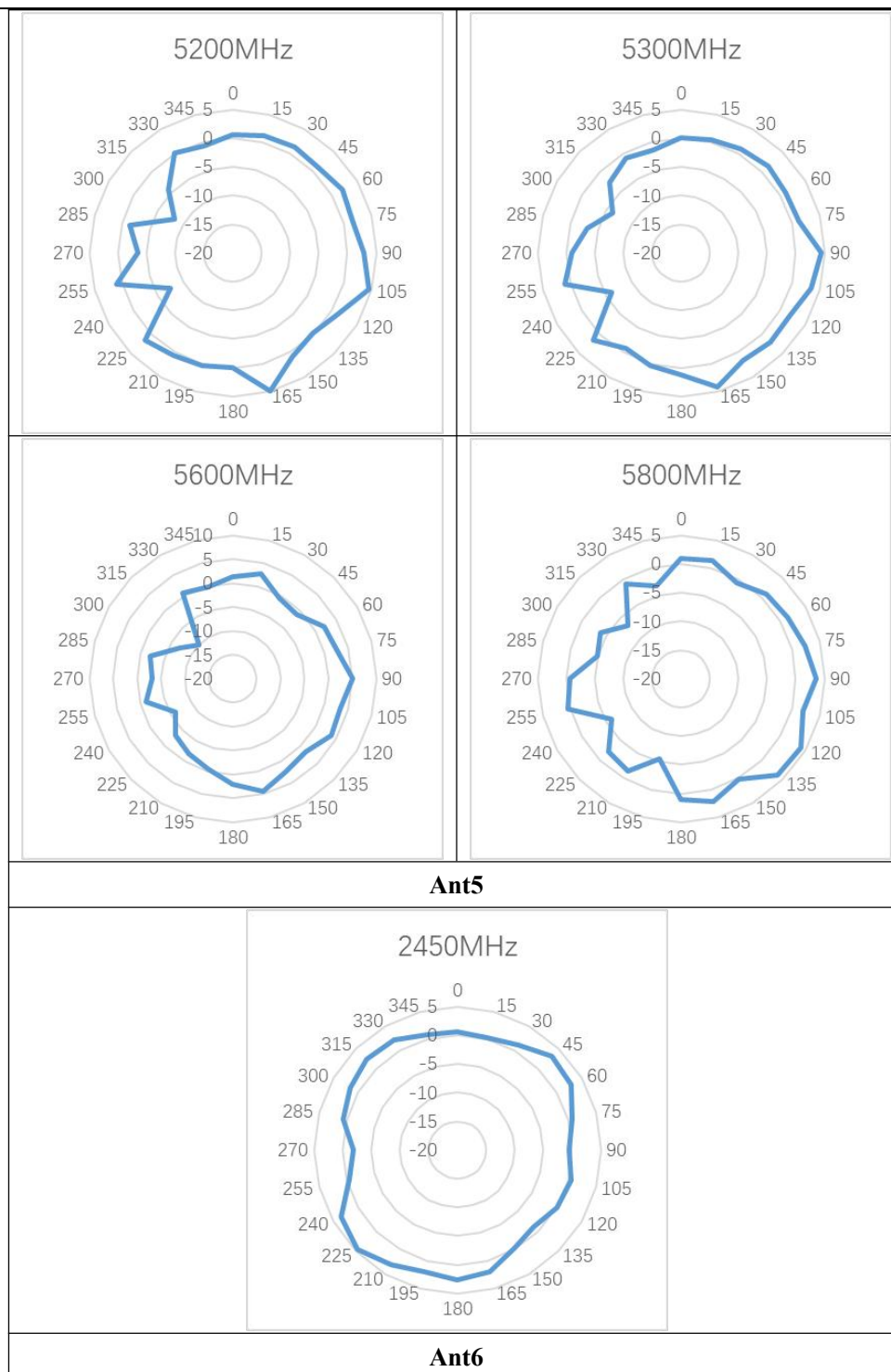
Frequency Band(MHz)	Max Antenna Gain	Max Directional Gain	NSS	Polarization/ Φ (°) / θ (°)
2400-2483.5(2450)	5.34	3.08	3	Theta/225/90
5150-5250(5200)	8.23	6.09	2	Theta/75/90
5250-5350(5300)	7.84	6.15	2	Theta/90/90
5470-5725(5600)	7.05	4.86	2	Theta/105/75
5725-5850(5800)	6.22	4.03	2	Theta/270/90
5925-6425(6175)	5.59	4.57	2	Theta/255/90
6425-6525(6475)	5.95	5.09	2	Theta/255/90
6525-6875(6725)	6.32	4.66	2	Theta/270/90
6875-7125(7025)	4.79	3.26	2	Theta/285/90

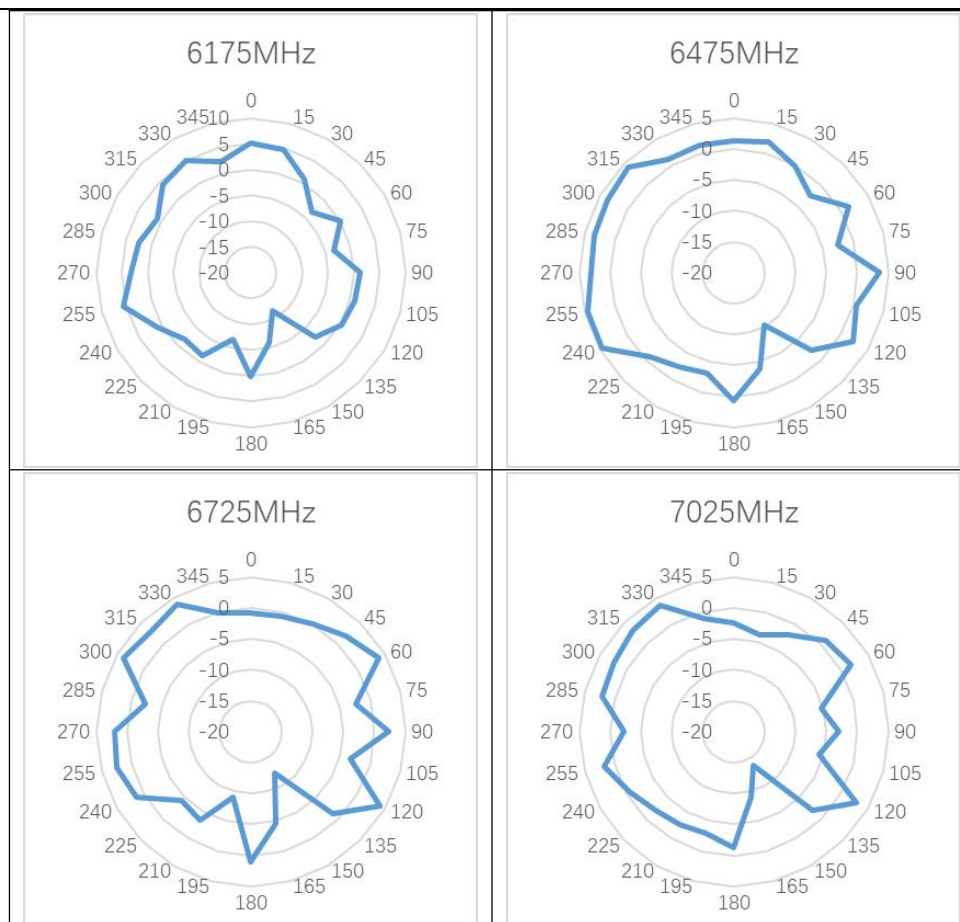
6 Test Pattern

6.1 Antenna Pattern









7 Test Pattern

Ant2													
Freq	2450												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-10.48	-6.85	-4.85	-3.75	-1.99	1.38	3.66	1.37	-1.55	-2.18	-8.36	-8.53	-12.91
15.00	-10.19	-6.7	-4.14	-2.9	-1.24	1.53	2.44	0.84	-3.22	-2.19	-5.78	-8.78	-12.91
30.00	-10.2	-6.74	-3.97	-3.41	-0.74	1.04	1.4	0.9	-3.18	-2.7	-3.57	-9.34	-12.91
45.00	-10.21	-6.85	-3.99	-5.01	-2.26	0.78	0.56	-0.37	-2.26	-2.78	-2.85	-10.63	-12.91
60.00	-10.22	-7.24	-4.05	-4.97	-4.31	0.52	0.61	0.32	-2.28	-3.31	-3.48	-11.8	-12.91
75.00	-10.29	-7.67	-3.97	-4.57	-4.54	-0.58	0.32	0.05	-2.95	-4.48	-5.77	-12.72	-12.91
90.00	-10.33	-8.21	-3.87	-4.59	-4.48	-1.07	0.45	-0.37	-3.93	-5.99	-10.24	-12.91	-12.91
105.00	-9.91	-9.01	-3.95	-4.48	-4.19	-0.93	1.05	0.32	-3.41	-5.7	-13.73	-12.01	-12.91
120.00	-9.36	-10.42	-4.29	-3.55	-3.88	-1.26	0.94	0.45	-2.53	-4.65	-10.26	-11.11	-12.91
135.00	-9.07	-12.5	-4.51	-1.84	-3.16	-2.02	-0.83	-0.91	-2.07	-3.99	-8.26	-9.43	-12.91
150.00	-9.1	-14.73	-4.58	-0.23	-0.51	-1.57	-1.44	-1.41	-1.2	-3.52	-7.64	-8.14	-12.91
165.00	-9.21	-14.51	-4.72	0.56	1.46	1.44	1.12	0.54	0.44	-2.78	-7.42	-7.31	-12.91
180.00	-9.36	-11.49	-5.32	-0.56	0.41	1.73	0.22	1.51	2.28	-0.45	-6.13	-6.01	-12.91
195.00	-9.35	-8.88	-5.32	-3.36	-2.47	-0.8	0.3	4.19	4.15	0.92	-4.21	-5.26	-12.91
210.00	-9.25	-7.41	-4.75	-3.95	-1.52	1.13	3.83	5.34	4.31	1.74	-2.7	-5.06	-12.91
225.00	-9.33	-6.75	-4.5	-2.67	0	1.81	2.7	3.7	2.92	0.86	-2.35	-5.13	-12.91

240.00	-9.53	-6.48	-4.41	-1.85	-0.66	-0.1	0.99	0.28	-1.36	-0.85	-2.77	-5.64	-12.91
255.00	-9.55	-6.42	-4.35	-1.49	-1.5	-0.92	-1.28	-3.6	-3.96	-2.47	-3.65	-6.96	-12.91
270.00	-9.48	-6.56	-4.44	-1.11	-1.92	-2.13	-2.59	-6.34	-7.05	-5.14	-5.7	-9.21	-12.91
285.00	-9.59	-6.79	-4.69	-1.1	-2.61	-4.33	-4.67	-11.42	-8.84	-6.81	-8.81	-11.25	-12.91
300.00	-10.06	-7.03	-5.29	-1.7	-4.18	-6.14	-6.16	-7.4	-3.28	-4.04	-9.01	-10.83	-12.91
315.00	-10.56	-7.21	-6.07	-2.83	-5.46	-4.4	-2.12	-3.19	-0.89	-1.59	-5.57	-8.85	-12.91
330.00	-10.79	-7.23	-6.35	-4	-3.45	-0.74	1.59	0.54	0.48	-0.96	-4.14	-7.68	-12.91
345.00	-10.73	-7.07	-5.77	-4.31	-2.41	2.02	3.71	1.6	1.09	-1.18	-5.68	-7.8	-12.91

Ant4													
Freq	2450												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-10.8	-10.33	-8.2	-2.85	-0.39	1.03	0.64	1.93	-2.47	-8.24	-1.48	-4.2	-12.44
15.00	-10.89	-11.09	-8.37	-3.52	-0.7	0.3	0.28	2.26	-1.25	-5.35	-1.97	-4.07	-12.44
30.00	-10.83	-11.74	-6.45	-2.13	-0.94	-0.7	1.08	0.96	-0.63	-2.06	-1.59	-3.2	-12.44
45.00	-10.65	-11.64	-3.73	0.34	0.2	0.53	3.16	0.66	0.09	-0.28	-2.1	-3.15	-12.44
60.00	-10.35	-10.57	-2.38	1.45	1.03	1.92	2.94	1.02	1.18	-1.54	-3.56	-3.66	-12.44
75.00	-10.2	-9.68	-2.51	0.4	-0.02	1.09	0.7	0.88	0.13	-4.58	-4.92	-4.19	-12.44
90.00	-10.45	-9.26	-3.64	-1.85	-2.19	0.76	-0.51	0.86	-2.67	-5.16	-5.45	-5.39	-12.44
105.00	-10.8	-8.89	-4.46	-3.69	-3.6	0.51	0.49	-0.22	-2.98	-8.14	-5.91	-7.44	-12.44
120.00	-10.84	-8.47	-4.04	-3.31	-4.56	0.21	0.06	-1.9	-2.01	-7.34	-6.49	-7.18	-12.44
135.00	-10.75	-8.09	-2.87	-2.17	-4.78	-0.45	-1.13	-0.41	-3.47	-7.09	-7.17	-7.22	-12.44
150.00	-10.51	-8	-2.03	-1.73	-5.43	-1.12	-0.21	0.15	-6.89	-5.49	-4.91	-6.13	-12.44
165.00	-10.49	-8.15	-2.28	-1.63	-4.46	-1.08	2.04	1.59	-6.1	-2.81	-1.97	-3.73	-12.44
180.00	-10.76	-8.29	-4.15	-1.68	-2.84	0.54	2.73	2.12	-7.52	-3.2	-2.09	-2.49	-12.44
195.00	-11.01	-8.29	-5.61	-3.83	-1.09	0.66	1.89	0.86	-7.06	-5.75	-4.32	-3.42	-12.44
210.00	-11.06	-8.54	-5.31	-3.8	-1.65	1.81	3.04	1.27	-5.79	-5.77	-12	-9.4	-12.44
225.00	-11.16	-9.18	-4.93	-2.44	-2.71	1.93	4.55	1.26	-4.41	-3.11	-5.51	-12.44	-12.44
240.00	-11.31	-10.14	-4.38	-0.84	-4.03	-1.12	3.42	0.85	-2.53	-1.97	-3.01	-4.51	-12.44
255.00	-11.08	-10.97	-3.93	0.06	-2.01	-6.92	-0.5	-1.15	-2.86	-2.83	-2.17	-2.42	-12.44
270.00	-11.14	-11.44	-4.01	0.01	0.22	-2.02	-1.85	-3.91	-3.29	-3.43	-3	-2.13	-12.44
285.00	-11.11	-11.75	-4.68	-0.4	0.99	0.8	0.52	-3.63	-3.54	-2.03	-4.31	-2.39	-12.44
300.00	-11.05	-11.34	-5.63	-0.8	0.86	1.54	1.62	-1.71	-3.14	-1.96	-4.08	-2.71	-12.44
315.00	-11.05	-10.6	-6.28	-0.83	0.87	2.31	2.38	-0.04	-2.16	-3.93	-2.98	-2.95	-12.44
330.00	-11.12	-10.08	-6.57	-0.59	1.33	3.15	2.2	1.16	-2.03	-9.03	-2.1	-3.11	-12.44
345.00	-10.75	-9.97	-7.3	-1.2	0.96	2.6	0.87	0.95	-2.27	-11.28	-1.57	-3.49	-12.44

Ant5													
Freq	2450												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-8.25	-6.23	-5.56	-5	-4.37	-0.32	2.06	1.78	-0.44	-0.9	-4.19	-8.08	-13.36
15.00	-8.72	-6.77	-5.94	-5.85	-4.98	-1.86	-0.31	1.23	-2.2	-2.77	-4.21	-8.13	-13.36

30.00	-8.99	-7.5	-4.67	-3.28	-2.89	0.02	0.87	0.17	-2.19	-4.52	-6.5	-7.57	-13.36
45.00	-8.55	-8.38	-4.44	-2.04	-2.2	-0.08	2.13	2.79	1.25	-0.43	-4.74	-6.82	-13.36
60.00	-8.11	-9.41	-5.81	-2.85	-1.98	-1.09	1.49	1.37	1.64	1.34	-2.57	-6.57	-13.36
75.00	-7.9	-10.75	-7.18	-2.06	-0.08	0.83	0.69	-0.11	-0.72	0.72	-2	-6.14	-13.36
90.00	-8.21	-12.04	-7.12	-1.4	0.47	2.74	2.13	-0.89	-3.92	-1.26	-2.99	-6.13	-13.36
105.00	-8.32	-11.99	-6.44	-1.7	-0.37	2.89	2.9	0.43	-6.96	-4.61	-4.74	-8.21	-13.36
120.00	-8.21	-11.04	-5.51	-1.57	-1.35	1.95	2.77	1.05	-6.81	-5.78	-8.65	-13.36	-13.36
135.00	-8.02	-10.09	-4.65	-0.96	-0.67	1.32	2.15	0.67	-5.44	-4.76	-11.96	-13.28	-13.36
150.00	-8.11	-8.86	-4.47	-1.62	-0.15	0.93	2.05	0.46	-4.46	-3.19	-10.4	-11.1	-13.36
165.00	-8.05	-8.28	-4.82	-2.84	-1.93	-0.48	1.05	0.1	-1.03	-3.54	-10.04	-10.37	-13.36
180.00	-8.14	-8.49	-5.48	-3.1	-2.99	0.07	1.89	2.39	-0.85	-4.14	-6.83	-8.79	-13.36
195.00	-8.01	-8.81	-6.43	-3.59	-2.57	1.21	2.09	0.38	-2.24	-1.09	-4.86	-8.18	-13.36
210.00	-8.24	-8.37	-6.91	-6.23	-5.46	-2.5	-2.03	-0.23	1.06	1.1	-2.88	-6.79	-13.36
225.00	-8.83	-7.83	-7.66	-13.86	-5.24	-1.31	1.4	3.16	2.71	0.68	-3.92	-5.99	-13.36
240.00	-8.88	-8.22	-8.05	-9.03	-0.95	1.68	2.84	2.6	0.38	-2.97	-8.81	-7.37	-13.36
255.00	-8.37	-8.86	-6.86	-4.66	0.2	1.56	0.95	-1.19	-4.55	-7.6	-13.96	-9.56	-13.36
270.00	-8.18	-8.82	-5.47	-3.16	-0.88	-0.47	-0.74	-3.93	-8.32	-10.97	-13.92	-10.17	-13.36
285.00	-8.38	-8.09	-4.43	-3.24	-3.34	-2.25	-1.32	-2.64	-3.96	-6.63	-8.83	-9.1	-13.36
300.00	-9.02	-7.06	-3.96	-4.14	-5.08	-3.22	-1.39	-2.77	-3.32	-3.17	-4.07	-7.93	-13.36
315.00	-9.47	-6.13	-4.15	-4.87	-4.45	-3.36	-0.27	-1.9	-4.03	-1.11	-2.5	-7.49	-13.36
330.00	-8.88	-5.7	-4.41	-5.26	-4.66	-1.85	-0.21	1.32	-2.28	-3.74	-4.57	-8.17	-13.36
345.00	-8.21	-5.8	-4.53	-4.79	-4.95	-0.16	0.11	0.09	-1.4	-3.96	-6.14	-8.45	-13.36

2450MHz Composite Gain (1SS)													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-5.00	-2.85	-1.32	0.95	2.67	5.50	6.98	6.47	3.32	1.54	0.54	-1.94	-8.12
15.00	-5.11	-3.19	-1.21	0.77	2.66	4.87	5.66	6.24	2.59	1.44	0.93	-1.96	-8.12
30.00	-5.20	-3.63	-0.20	1.85	3.30	4.92	5.89	5.46	2.84	1.74	1.11	-1.54	-8.12
45.00	-4.98	-3.96	0.72	2.81	3.43	5.19	6.79	5.90	4.58	3.68	1.61	-1.57	-8.12
60.00	-4.73	-4.19	0.80	3.07	3.29	5.31	6.50	5.69	5.12	3.82	1.58	-1.96	-8.12
75.00	-4.62	-4.50	0.43	2.93	3.47	5.25	5.34	5.06	3.69	2.36	0.70	-2.22	-8.12
90.00	-4.83	-4.92	0.03	2.27	2.94	5.72	5.53	4.67	1.29	0.89	-0.96	-2.78	-8.12
105.00	-4.84	-5.08	-0.11	1.56	2.22	5.74	6.31	4.95	0.50	-1.26	-2.55	-4.23	-8.12
120.00	-4.63	-5.14	0.18	2.01	1.62	5.17	6.10	4.73	1.24	-1.08	-3.56	-5.40	-8.12
135.00	-4.44	-5.27	0.80	3.13	2.07	4.50	4.97	4.58	1.22	-0.41	-4.13	-4.86	-8.12
150.00	-4.41	-5.29	1.16	3.61	3.05	4.25	5.03	4.54	0.90	0.76	-2.59	-3.45	-8.12
165.00	-4.42	-5.08	0.91	3.58	3.47	4.80	6.19	5.54	2.96	1.73	-1.04	-1.94	-8.12
180.00	-4.58	-4.53	-0.19	3.05	3.11	5.58	6.45	6.79	3.62	2.32	0.02	-0.61	-8.12
195.00	-4.60	-3.88	-1.00	1.18	2.75	5.17	6.23	6.75	4.26	3.22	0.31	-0.63	-8.12
210.00	-4.67	-3.32	-0.84	0.18	2.08	5.11	6.74	7.23	5.56	4.39	-0.15	-2.13	-8.12
225.00	-4.95	-3.09	-0.82	-0.20	2.38	5.71	7.75	7.54	5.78	4.43	0.94	-2.53	-8.12

240.00	-5.08	-3.38	-0.68	1.55	3.02	5.00	7.25	6.07	3.68	2.88	0.32	-0.99	-8.12
255.00	-4.83	-3.78	-0.18	2.96	3.72	3.35	4.54	2.86	1.01	0.76	-0.49	-1.03	-8.12
270.00	-4.75	-3.94	0.15	3.45	3.96	3.26	3.08	0.12	-1.18	-1.19	-1.68	-1.61	-8.12
285.00	-4.85	-3.86	0.17	3.27	3.33	3.10	3.20	-0.34	-0.37	-0.09	-2.27	-1.95	-8.12
300.00	-5.23	-3.48	-0.16	2.67	2.38	2.75	3.36	1.14	1.52	1.76	-0.66	-1.72	-8.12
315.00	-5.56	-3.01	-0.67	2.08	2.23	3.48	4.97	3.16	2.51	2.65	1.19	-1.28	-8.12
330.00	-5.43	-2.71	-0.95	1.72	2.91	5.23	6.02	5.78	3.59	0.80	1.24	-1.24	-8.12
345.00	-5.04	-2.67	-1.02	1.49	2.98	6.34	6.48	5.67	4.03	0.24	0.56	-1.52	-8.12

2450MHz Composite Gain (3SS)													
Freq	2450												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-9.69	-7.47	-5.98	-3.78	-1.96	0.76	2.29	1.70	-1.41	-2.82	-3.84	-6.47	-12.89
15.00	-9.84	-7.76	-5.82	-3.92	-1.94	0.21	0.97	1.49	-2.15	-3.24	-3.70	-6.46	-12.89
30.00	-9.94	-8.18	-4.91	-2.90	-1.42	0.18	1.12	0.69	-1.87	-2.97	-3.45	-5.91	-12.89
45.00	-9.71	-8.54	-4.04	-1.71	-1.26	0.42	2.08	1.23	-0.07	-1.02	-3.09	-5.86	-12.89
60.00	-9.43	-8.85	-3.86	-1.28	-1.21	0.62	1.79	0.92	0.50	-0.74	-3.18	-6.22	-12.89
75.00	-9.32	-9.17	-4.15	-1.62	-1.10	0.51	0.57	0.30	-1.00	-2.02	-3.92	-6.46	-12.89
90.00	-9.54	-9.56	-4.61	-2.40	-1.60	1.09	0.83	-0.07	-3.47	-3.62	-5.32	-7.11	-12.89
105.00	-9.55	-9.75	-4.82	-3.13	-2.38	1.11	1.61	0.19	-4.12	-5.91	-6.75	-8.81	-12.89
120.00	-9.34	-9.83	-4.57	-2.72	-3.03	0.50	1.41	0.04	-3.32	-5.79	-8.19	-9.79	-12.89
135.00	-9.14	-9.87	-3.93	-1.63	-2.54	-0.17	0.33	-0.17	-3.45	-5.09	-8.70	-9.32	-12.89
150.00	-9.13	-9.69	-3.53	-1.14	-1.46	-0.44	0.38	-0.19	-3.56	-3.95	-7.09	-8.01	-12.89
165.00	-9.14	-9.49	-3.77	-1.07	-0.97	0.10	1.43	0.79	-1.47	-3.03	-5.15	-6.31	-12.89
180.00	-9.29	-9.20	-4.94	-1.66	-1.51	0.84	1.73	2.02	-0.47	-2.30	-4.48	-5.01	-12.89
195.00	-9.29	-8.65	-5.76	-3.59	-1.99	0.44	1.50	2.16	0.54	-1.19	-4.45	-5.21	-12.89
210.00	-9.37	-8.08	-5.56	-4.53	-2.54	0.51	2.27	2.79	1.50	0.07	-4.30	-6.74	-12.89
225.00	-9.66	-7.81	-5.49	-4.16	-2.13	1.05	3.08	2.83	1.45	-0.18	-3.74	-6.88	-12.89
240.00	-9.79	-8.03	-5.31	-2.72	-1.64	0.31	2.53	1.36	-1.00	-1.84	-4.13	-5.69	-12.89
255.00	-9.53	-8.36	-4.87	-1.62	-1.00	-0.89	-0.18	-1.84	-3.73	-3.76	-4.44	-5.30	-12.89
270.00	-9.43	-8.50	-4.60	-1.23	-0.77	-1.47	-1.66	-4.59	-5.67	-5.53	-5.68	-5.59	-12.89
285.00	-9.55	-8.42	-4.60	-1.42	-1.22	-1.41	-1.33	-4.56	-4.88	-4.55	-6.76	-5.88	-12.89
300.00	-9.96	-8.07	-4.90	-2.00	-1.96	-1.46	-0.93	-3.36	-3.25	-2.97	-5.19	-5.85	-12.89
315.00	-10.31	-7.60	-5.39	-2.54	-2.06	-0.75	0.39	-1.52	-2.17	-2.05	-3.49	-5.66	-12.89
330.00	-10.15	-7.32	-5.66	-2.82	-1.44	0.75	1.31	1.02	-1.09	-3.47	-3.46	-5.68	-12.89
345.00	-9.72	-7.29	-5.72	-3.12	-1.46	1.64	1.85	0.92	-0.62	-3.84	-3.94	-5.98	-12.89

Ant1													
Freq	5200.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-16.02	-20.31	-9.84	-16.3	-6.52	-3.56	-0.9	-1.29	-4.74	-5.07	-4.49	-5.98	-15.25
15.00	-17.02	-19.06	-13.08	-5.37	-0.27	2.42	2.67	0.53	-8.03	-7.26	-4.35	-6.2	-15.25
30.00	-16.81	-14.18	-7.08	-3.32	-9.34	-2	1.67	-0.93	-4.97	-7.9	-10.84	-8.86	-15.25



45.00	-17.43	-10.9	-7.77	-8.76	-2.97	1.98	1.38	-2.15	-3.72	-7.18	-9.69	-10.36	-15.25
60.00	-17.54	-9.83	-11.75	-8.11	-0.96	2.37	4.33	0.61	-3.68	-8.81	-10.55	-11.68	-15.25
75.00	-17.09	-8.97	-13.37	-7.69	-4.1	5.12	8.23	5.66	1	-5.26	-7.88	-15.25	-15.25
90.00	-17.84	-9.01	-12.47	-9.73	-6.05	5.23	7.16	5.17	0.43	-4.04	-6.74	-14.03	-15.25
105.00	-18.05	-9.49	-12.83	-11.31	-3.11	3.58	7.07	5.4	-2.4	-7.85	-10.06	-12.28	-15.25
120.00	-16.84	-10.72	-12.1	-9.19	-2.85	0.91	3.93	2.29	-0.7	-9.48	-15.44	-9.37	-15.25
135.00	-17.08	-12.75	-10.86	-8.35	-0.43	4.88	3.74	1.77	-0.26	-5.01	-10.81	-8.37	-15.25
150.00	-17.58	-16.96	-10.98	-8.3	-4.46	0.37	1.5	0.07	-1.79	-1.51	-9.34	-12.18	-15.25
165.00	-18.37	-27.45	-10.84	-5.13	-0.42	2.04	2.45	-0.5	-3.93	-4.67	-9.43	-7.51	-15.25
180.00	-19.38	-16.4	-11.42	-6.55	-12.42	-4.16	-7.74	-7.98	-6.78	-3.78	-12.66	-6.1	-15.25
195.00	-19.94	-12.84	-13.41	-7.91	-5.34	-3.76	-6.74	-2.85	-8.23	-11.32	-16.3	-5.84	-15.25
210.00	-18.14	-11.17	-7.93	-7.1	-6.55	-3.2	-4.53	-7.5	-5.69	-8.22	-10.78	-4.77	-15.25
225.00	-16.62	-10.43	-6.66	-4.99	-7.09	-4.51	-2.06	-4.8	-7.84	-6.72	-8.76	-6.97	-15.25
240.00	-16.48	-10.59	-5.43	0.5	0.88	-0.07	-0.73	-5.26	-11.26	-13.58	-12.03	-8.48	-15.25
255.00	-15.89	-11.21	-4.7	1.15	-1.26	-1.34	3.23	-0.05	-4.77	-11.2	-15.54	-5.69	-15.25
270.00	-16.97	-11.44	-3.76	0.24	0.12	3.05	4.62	0.66	-3.88	-6.66	-17.9	-6.22	-15.25
285.00	-18.44	-12.06	-3.05	0.36	0.46	3.57	3.06	-2.07	-2.12	-9.57	-10.4	-8.72	-15.25
300.00	-18.09	-12.07	-5.32	-0.99	-2.17	-5.03	-7.46	-4.65	-2.9	-8.5	-4.4	-9.24	-15.25
315.00	-16.92	-11.93	-12.08	-8.42	-3.11	2.21	2.28	-1.24	-5.04	-8.66	-3.63	-9.1	-15.25
330.00	-16.45	-13	-15.74	-12.33	-4.97	-0.81	0.56	-0.66	-3.31	-6.24	-9.53	-4.8	-15.25
345.00	-15.12	-15.49	-8.32	-9.09	-3.1	1.26	3.3	1.11	-4.28	-7.71	-4.75	-3.36	-15.25

Ant4													
Freq	5200.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-13.12	-13.29	-10.75	-8.21	-4.26	-1.46	0.65	1.8	-1.3	-2.76	-8.61	-6.47	-14.73
15.00	-12.26	-14.17	-8.74	-3.86	-3.5	-0.34	1.2	2.05	-0.02	-1.95	-5	-5.81	-14.73
30.00	-12.14	-13.31	-12.07	-3.07	-1.21	0.47	1.44	1.89	-0.24	-0.55	-6.4	-8.03	-14.73
45.00	-13.39	-12.69	-12.42	-6.45	-1.73	0.44	1.1	0.94	-1.96	-2.7	-7.54	-14.73	-14.73
60.00	-13.57	-12.74	-8.56	-5.98	-4.66	-0.62	2.12	0.78	-1.58	-4.75	-9.68	-13.53	-14.73
75.00	-12.94	-12.39	-8.33	-6.87	-2.46	0.96	1.7	2.35	0.26	-3.44	-5.33	-10.65	-14.73
90.00	-13.21	-12.41	-12.04	-5.38	-1.31	2.46	2.83	2.22	0.91	-2.08	-6.38	-8.75	-14.73
105.00	-12.41	-13.27	-12.95	-6.19	-2.12	3.59	4.66	4.14	2	-3.18	-6.76	-8.11	-14.73
120.00	-12.45	-13.54	-9.73	-7.4	-3.77	1.7	1.3	2.65	-0.39	-2.74	-6.63	-7.07	-14.73
135.00	-13.93	-12.61	-7	-7.09	-5.02	0.04	-0.3	-0.11	-3.61	-2.74	-4.85	-5.8	-14.73
150.00	-14.46	-10.71	-5.48	-4.99	-1.34	1.05	0.87	0.47	-1.09	-1.23	-6.3	-6.95	-14.73
165.00	-13.98	-9.13	-5.52	-3.49	-1.9	2.89	4.92	4.04	-3.02	-2.61	-5.65	-7.92	-14.73
180.00	-14.4	-9.91	-8.07	-7.01	-6.05	0.09	-0.02	-1	-4.21	-4.2	-6.62	-10.14	-14.73
195.00	-14.07	-15.78	-14.35	-8.15	-3.97	-2.5	0.34	-1.36	-4.67	-5.85	-8.75	-10.44	-14.73
210.00	-13.39	-16.52	-6.22	-5.32	-1.81	-1.26	0.55	1.02	-1.99	-3	-7.14	-8.91	-14.73
225.00	-13.64	-12.8	-5.63	-5.04	-4.13	-2.21	1.55	-1.16	-2.86	-0.46	-4.66	-8.7	-14.73
240.00	-14.24	-11.31	-13.97	-7.24	-2.77	-1.2	-7.55	-8.08	-2.89	-2.45	-8.08	-9.76	-14.73
255.00	-13.76	-11.81	-11.32	-4.51	-2.09	-2.52	0.95	2.33	-2.65	-5.51	-15.07	-10.62	-14.73

270.00	-14.28	-12.37	-7.15	-4.5	-2.27	-6.28	-3.41	-5.9	-11.17	-10.46	-13	-10.05	-14.73
285.00	-13.84	-12.48	-5.97	-6.34	-7.06	-7.75	-1.51	-1.71	-8.01	-11.5	-8.95	-8.98	-14.73
300.00	-13.01	-13.92	-5.33	-8.66	-6.71	-3.45	-8.36	-17.81	-13.76	-11.45	-9.65	-8.29	-14.73
315.00	-13.14	-17.53	-5.87	-14.44	-5.64	-7.37	-4.27	-5.49	-11.63	-7.75	-14.92	-8.26	-14.73
330.00	-13.39	-26.27	-8.57	-10.18	-4.81	-2.89	0.13	-1.14	-5.68	-8.13	-12.25	-7.7	-14.73
345.00	-12.77	-15.33	-12.01	-3.97	-8.99	-3.61	-0.58	-0.49	-6.84	-9.19	-10.15	-6.34	-14.73

5200MHz Composite Gain (1SS)													
Freq	5200.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-11.44	-13.10	-7.27	-8.34	-2.31	0.56	2.92	3.40	0.16	-0.83	-3.30	-3.21	-11.98
15.00	-11.31	-13.27	-7.63	-1.57	1.27	4.16	4.98	4.33	-0.12	-1.20	-1.66	-2.99	-11.98
30.00	-11.15	-10.72	-6.21	-0.18	-1.35	2.33	4.57	3.60	0.72	-0.46	-5.33	-5.42	-11.98
45.00	-12.17	-8.74	-6.78	-4.52	0.68	4.25	4.25	2.54	0.21	-1.64	-5.54	-9.26	-11.98
60.00	-12.32	-8.15	-7.00	-3.97	0.40	4.01	6.31	3.71	0.44	-3.53	-7.09	-9.55	-11.98
75.00	-11.76	-7.50	-7.48	-4.26	-0.23	6.30	8.58	7.17	3.65	-1.29	-3.50	-9.64	-11.98
90.00	-12.21	-7.53	-9.24	-4.28	-0.35	6.97	8.27	6.83	3.68	0.01	-3.55	-7.98	-11.98
105.00	-11.77	-8.17	-9.88	-5.37	0.41	6.60	8.96	7.80	3.09	-2.19	-5.24	-6.94	-11.98
120.00	-11.36	-9.01	-7.82	-5.24	-0.29	4.32	5.72	5.48	2.47	-2.46	-6.95	-5.13	-11.98
135.00	-12.35	-9.67	-5.71	-4.69	0.59	5.80	4.96	3.89	1.24	-0.79	-4.32	-3.98	-11.98
150.00	-12.87	-10.27	-4.79	-3.48	0.25	3.73	4.20	3.28	1.58	1.64	-4.68	-6.17	-11.98
165.00	-12.89	-11.15	-4.77	-1.26	1.88	5.49	6.78	5.07	-0.45	-0.57	-4.33	-4.70	-11.98
180.00	-13.53	-9.55	-6.57	-3.77	-5.65	1.23	-0.04	-0.80	-2.39	-0.98	-6.11	-4.88	-11.98
195.00	-13.51	-11.18	-10.86	-5.02	-1.62	-0.10	0.51	0.94	-3.26	-5.15	-8.72	-4.83	-11.98
210.00	-12.43	-10.43	-4.02	-3.15	-0.85	0.83	1.39	0.78	-0.63	-2.21	-5.76	-3.59	-11.98
225.00	-11.99	-8.52	-3.12	-2.00	-2.47	-0.27	2.94	0.22	-1.99	-0.03	-3.46	-4.78	-11.98
240.00	-12.28	-7.93	-5.68	0.48	2.26	2.39	-0.48	-3.55	-3.09	-3.33	-6.82	-6.09	-11.98
255.00	-11.75	-8.49	-4.38	1.78	1.35	1.10	5.17	4.23	-0.64	-4.89	-12.29	-4.80	-11.98
270.00	-12.51	-8.88	-2.28	1.20	2.02	2.59	4.51	1.00	-3.77	-5.34	-12.10	-4.92	-11.98
285.00	-12.83	-9.26	-1.38	0.65	0.50	2.65	4.08	1.12	-1.56	-7.47	-6.63	-5.84	-11.98
300.00	-12.17	-9.94	-2.31	-0.99	-1.14	-1.19	-4.89	-5.93	-3.72	-6.84	-3.62	-5.74	-11.98
315.00	-11.82	-11.28	-5.42	-7.91	-1.27	1.69	2.62	-0.10	-4.71	-5.18	-4.55	-5.66	-11.98
330.00	-11.78	-14.30	-8.42	-8.18	-1.88	1.22	3.36	2.11	-1.40	-4.12	-7.77	-3.12	-11.98
345.00	-10.86	-12.40	-6.96	-3.15	-2.54	2.17	4.59	3.36	-2.46	-5.41	-4.03	-1.71	-11.98

5200MHz Composite Gain (2SS)													
Freq	5200.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-14.33	-15.51	-10.27	-10.59	-5.24	-2.38	-0.06	0.52	-2.69	-3.76	-6.08	-6.22	-14.98
15.00	-14.02	-15.96	-10.39	-4.55	-1.59	1.26	2.00	1.36	-2.39	-3.84	-4.66	-6.00	-14.98
30.00	-13.88	-13.72	-8.89	-3.19	-3.60	-0.59	1.56	0.70	-1.99	-2.83	-8.08	-8.43	-14.98
45.00	-14.96	-11.70	-9.50	-7.45	-2.31	1.28	1.24	-0.34	-2.75	-4.39	-8.48	-12.02	-14.98
60.00	-15.12	-11.05	-9.87	-6.92	-2.43	1.13	3.36	0.70	-2.50	-6.32	-10.09	-12.51	-14.98

75.00	-14.54	-10.35	-10.16	-7.26	-3.20	3.52	6.09	4.31	0.65	-4.26	-6.42	-12.37	-14.98
90.00	-14.94	-10.39	-12.25	-7.03	-3.06	4.06	5.51	3.94	0.68	-2.95	-6.56	-10.63	-14.98
105.00	-14.37	-10.98	-12.89	-8.04	-2.59	3.59	6.03	4.82	0.33	-4.92	-8.10	-9.71	-14.98
120.00	-14.11	-11.91	-10.76	-8.20	-3.29	1.32	2.81	2.47	-0.54	-4.92	-9.10	-8.07	-14.98
135.00	-15.23	-12.68	-8.51	-7.67	-2.14	3.10	2.17	0.93	-1.62	-3.73	-6.88	-6.90	-14.98
150.00	-15.75	-12.80	-7.41	-6.34	-2.63	0.72	1.20	0.27	-1.43	-1.37	-7.56	-8.82	-14.98
165.00	-15.64	-12.08	-7.41	-4.23	-1.10	2.49	3.86	2.34	-3.45	-3.52	-7.14	-7.71	-14.98
180.00	-16.21	-12.04	-9.43	-6.77	-8.16	-1.53	-2.35	-3.22	-5.31	-3.98	-8.67	-7.67	-14.98
195.00	-16.08	-14.07	-13.85	-8.03	-4.60	-3.08	-1.89	-2.04	-6.10	-7.78	-11.06	-7.56	-14.98
210.00	-15.15	-13.07	-6.99	-6.12	-3.56	-2.12	-1.29	-1.42	-3.46	-4.87	-8.59	-6.36	-14.98
225.00	-14.88	-11.46	-6.11	-5.01	-5.36	-3.21	0.11	-2.61	-4.67	-2.55	-6.24	-7.75	-14.98
240.00	-15.22	-10.94	-7.87	-1.83	-0.57	-0.60	-2.92	-6.45	-5.31	-5.14	-9.62	-9.07	-14.98
255.00	-14.70	-11.50	-6.85	-0.82	-1.66	-1.89	2.24	1.30	-3.58	-7.48	-15.30	-7.49	-14.98
270.00	-15.42	-11.88	-5.13	-1.51	-0.91	0.52	2.24	-1.48	-6.15	-8.16	-14.79	-7.73	-14.98
285.00	-15.56	-12.26	-4.27	-1.81	-1.84	0.87	1.35	-1.89	-4.13	-10.43	-9.61	-8.85	-14.98
300.00	-14.85	-12.90	-5.32	-3.31	-3.87	-4.17	-7.89	-7.46	-5.57	-9.73	-6.28	-8.74	-14.98
315.00	-14.63	-13.88	-7.95	-10.46	-4.19	-0.35	0.14	-2.86	-7.19	-8.18	-6.33	-8.66	-14.98
330.00	-14.66	-15.81	-10.82	-11.12	-4.89	-1.73	0.35	-0.89	-4.34	-7.08	-10.68	-6.01	-14.98
345.00	-13.79	-15.41	-9.78	-5.82	-5.11	-0.53	1.78	0.38	-5.37	-8.39	-6.66	-4.60	-14.98

Ant1													
Freq	5300.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-12.54	-19.32	-13.4	-13.99	-4.64	-2.62	0.27	-0.52	-6.46	-6.96	-4.69	-6.24	-15.09
15.00	-12.95	-15.92	-11.52	-3.73	0.68	2.38	1.3	-2.36	-11.5	-10.25	-6.64	-6.3	-15.09
30.00	-12.93	-11.25	-7.1	-4.94	-7.07	0.05	2.3	-1.17	-6.21	-8.68	-11.22	-9	-15.09
45.00	-13.15	-9.51	-9.01	-11.85	-1.7	1.76	0.48	-4.07	-4.8	-8.15	-9.22	-7.36	-15.09
60.00	-13.72	-8.67	-16.86	-8.58	-1.93	0.96	4.25	-0.03	-6.35	-11.72	-14.11	-8.4	-15.09
75.00	-12.94	-8.69	-17.91	-5.68	-3	5.99	7.84	4.87	-1.18	-6.56	-7.48	-9.76	-15.09
90.00	-12.19	-8.53	-15.28	-7.81	-4.7	6.8	7.39	5.15	0.07	-3.55	-5.9	-8.4	-15.09
105.00	-12.11	-8.94	-15.06	-8.95	-6.17	4.56	7.03	4.9	-2.42	-6.33	-7.95	-8.52	-15.09
120.00	-12.75	-9.6	-14.48	-8.9	-3.3	0.45	4.02	1.73	-2.77	-9.82	-17.04	-9.67	-15.09
135.00	-13.33	-10.62	-10.11	-7.23	0.21	5.25	3.54	0.9	-1.61	-9.45	-12.2	-8.89	-15.09
150.00	-13.82	-12.85	-10.63	-7.76	-4.13	2.36	3.04	0.84	-2.64	-3.75	-12.55	-15.09	-15.09
165.00	-14.13	-16.08	-11.95	-4.19	1.05	2.12	0.84	-1.14	-5.34	-7.48	-10.15	-7.8	-15.09
180.00	-13.89	-16.52	-10.69	-7.77	-10.05	-1.01	-5.41	-6.11	-6	-5.39	-11.96	-5.37	-15.09
195.00	-12.79	-12.51	-9.44	-6.08	-4.52	-3.45	-7.45	-4.95	-10.07	-10.54	-14.57	-5.33	-15.09
210.00	-12.83	-10.28	-10.62	-7.7	-6.62	-3.51	-7.33	-7.58	-8.93	-8.1	-11.8	-3.96	-15.09
225.00	-13.31	-10	-9.79	-5.57	-7.7	-7.04	-4.35	-6.24	-9.17	-9.19	-8.2	-4.78	-15.09
240.00	-13.36	-10.44	-6.67	-0.52	0.41	-0.5	-1.23	-4.22	-11.7	-14.02	-8.64	-7.46	-15.09
255.00	-14.05	-11.28	-5.83	0.95	-0.4	0.2	4.59	-0.11	-4.89	-13.01	-13.07	-6.89	-15.09
270.00	-14.41	-12.03	-4.49	1.31	1.45	4.28	5.84	2.14	-4.37	-6.78	-14.13	-7.52	-15.09
285.00	-13.79	-12.14	-3.87	1.65	0.66	4.06	3.12	-2.51	-3.72	-7.78	-8.22	-9	-15.09



300.00	-13.02	-12.41	-6.3	-1.13	-2.05	-4.04	-5.66	-3.72	-4.7	-8.13	-4.83	-7.63	-15.09
315.00	-13.13	-12.24	-10.81	-10.61	-4.09	2.2	2.08	-1.51	-5.59	-10.17	-4.45	-7.24	-15.09
330.00	-13.26	-12.3	-17.02	-11.83	-4.16	-0.48	0.25	-0.93	-5.29	-9.91	-7.85	-3.54	-15.09
345.00	-12.88	-14.12	-9.17	-6.99	-2.98	0.86	1.67	-0.51	-6.29	-8.82	-4	-3.33	-15.09

Ant4													
Freq	5300.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-12.34	-14.16	-9.7	-7.12	-3.92	-0.95	0.01	1.47	-0.78	-2.26	-7.42	-5.6	-12.59
15.00	-12.43	-20.05	-10.84	-4.75	-2.14	-0.74	0.36	2.15	0.15	-1.28	-5.88	-5.35	-12.59
30.00	-12.72	-16.81	-13.31	-5.25	-2.38	0.13	0.87	1.7	-0.2	-0.55	-6.23	-8.56	-12.59
45.00	-11.31	-13.17	-10.78	-6.04	-2.82	0.69	1.42	1.44	-0.61	-2.18	-8.61	-12.59	-12.59
60.00	-11.21	-11.71	-9.87	-6.8	-4.49	-0.98	0.97	0.68	-1.56	-5.86	-7.05	-11.42	-12.59
75.00	-11.84	-12.23	-12.79	-5.57	-1.13	1.26	1.2	1.63	-0.26	-3.68	-4.71	-9.47	-12.59
90.00	-11.19	-11.54	-13.82	-4.87	-1.58	3.13	4.42	3.57	1.78	-2.34	-5.48	-8.18	-12.59
105.00	-11.83	-11.09	-12.11	-5.53	-2.48	2.54	3.5	3.15	1.96	-3.59	-5.08	-8.04	-12.59
120.00	-12.3	-11.08	-11.26	-6.81	-2.73	2.19	1.94	1.99	-0.82	-3.26	-5.86	-7.08	-12.59
135.00	-11.39	-11.47	-8.76	-6.33	-4.44	1.86	1.98	1.6	-2.67	-3.18	-4.58	-5.76	-12.59
150.00	-11.39	-12.96	-7.34	-5.04	-2.8	0.82	1.73	1.26	-1.63	-2.49	-4.72	-6.66	-12.59
165.00	-12.32	-11.7	-6.6	-4.71	-1.76	2.93	4.22	4.18	-1.96	-2.97	-5.36	-7.81	-12.59
180.00	-11.9	-10	-7.48	-6.29	-5.09	0.27	1.17	0.68	-3.14	-5.3	-7.34	-8.66	-12.59
195.00	-12.12	-10.41	-11.97	-7.04	-3.35	-2.43	0.36	-0.93	-3.89	-5.4	-7.7	-8.75	-12.59
210.00	-12.45	-12.19	-8.96	-5.54	-3.12	-1.88	-0.84	-0.3	-2.57	-3.03	-7.88	-8.9	-12.59
225.00	-12.85	-12.69	-5.17	-3.86	-2.75	-1.62	1.52	-0.67	-3.8	-1.5	-4.72	-9.37	-12.59
240.00	-12.28	-12.96	-6.92	-6.61	-3.56	-2.39	-6.13	-8.59	-2.57	-1.99	-8.06	-11.25	-12.59
255.00	-13.38	-13.62	-12.5	-7.28	-3.13	-2.54	1.04	2.19	-2.42	-4.74	-17.15	-10.9	-12.59
270.00	-13.28	-14.11	-8.13	-4.95	-2.38	-3.96	-1.02	-2.87	-10.08	-11.64	-14.22	-9.54	-12.59
285.00	-12.76	-15.89	-5.09	-5.04	-6.52	-8.72	-3.06	-1.54	-8.28	-11.34	-9.49	-8.19	-12.59
300.00	-12.88	-17.63	-4.41	-6.71	-8.28	-3.13	-6.21	-14.37	-15.67	-12	-10.8	-7.86	-12.59
315.00	-12.75	-22.59	-6.82	-12.44	-7.02	-5.28	-2.51	-4.31	-10.72	-7.51	-13.13	-7.86	-12.59
330.00	-12.06	-17.46	-9.68	-10.41	-5.72	-3.27	-0.81	-1.78	-6.25	-9.29	-11.53	-7.66	-12.59
345.00	-12.77	-13.31	-11.25	-6.85	-6.75	-4.97	-1.47	-1.65	-7.08	-9.43	-9.26	-6.56	-12.59

5300MHz Composite Gain (1SS)													
Freq	5300.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-9.43	-13.35	-8.34	-6.88	-1.26	1.27	3.15	3.54	-0.15	-1.29	-2.94	-2.90	-10.74
15.00	-9.68	-14.73	-8.16	-1.21	2.39	3.97	3.85	3.19	-0.84	-1.64	-3.24	-2.80	-10.74
30.00	-9.81	-10.58	-6.65	-2.08	-1.40	3.10	4.62	3.39	0.32	-0.69	-5.36	-5.77	-10.74
45.00	-9.17	-8.14	-6.84	-5.46	0.77	4.25	3.97	2.13	0.56	-1.65	-5.90	-6.58	-10.74
60.00	-9.36	-7.05	-9.67	-4.63	-0.11	3.05	5.77	3.34	-0.62	-5.29	-6.87	-6.77	-10.74
75.00	-9.36	-7.27	-11.97	-2.61	1.00	6.95	8.15	6.41	2.30	-1.99	-2.97	-6.60	-10.74
90.00	-8.67	-6.89	-11.51	-3.21	0.01	8.17	9.04	7.41	3.98	0.09	-2.68	-5.28	-10.74

105.00	-8.96	-6.94	-10.45	-4.06	-1.12	6.62	8.45	7.08	3.05	-1.84	-3.39	-5.27	-10.74
120.00	-9.51	-7.30	-9.71	-4.78	0.00	4.37	6.05	4.87	1.27	-2.92	-6.75	-5.27	-10.74
135.00	-9.30	-8.02	-6.40	-3.76	1.20	6.73	5.81	4.27	0.89	-2.75	-4.57	-4.17	-10.74
150.00	-9.51	-9.89	-5.82	-3.28	-0.43	4.63	5.42	4.06	0.89	-0.09	-4.77	-6.88	-10.74
165.00	-10.17	-10.61	-5.86	-1.44	2.77	5.54	5.70	4.93	-0.48	-1.93	-4.42	-4.79	-10.74
180.00	-9.83	-9.65	-5.93	-3.99	-4.21	2.66	1.50	0.94	-1.44	-2.33	-6.34	-3.85	-10.74
195.00	-9.44	-8.39	-7.60	-3.54	-0.91	0.09	0.32	0.30	-3.43	-4.58	-7.46	-3.86	-10.74
210.00	-9.63	-8.17	-6.74	-3.54	-1.68	0.35	-0.48	-0.19	-2.17	-2.19	-6.61	-3.07	-10.74
225.00	-10.07	-8.23	-4.17	-1.66	-1.87	-0.90	2.08	-0.01	-3.07	-1.51	-3.28	-3.76	-10.74
240.00	-9.79	-8.60	-3.78	-0.03	1.66	1.62	-0.33	-3.12	-2.98	-3.06	-5.33	-6.14	-10.74
255.00	-10.70	-9.36	-5.53	0.79	1.35	1.95	6.01	4.13	-0.56	-4.92	-11.86	-5.66	-10.74
270.00	-10.82	-10.00	-3.11	1.74	2.75	4.11	6.08	3.00	-3.75	-5.86	-11.16	-5.46	-10.74
285.00	-10.25	-10.80	-1.45	1.94	0.80	2.85	3.58	1.00	-2.69	-6.37	-5.82	-5.58	-10.74
300.00	-9.94	-11.62	-2.29	-0.47	-1.61	-0.56	-2.92	-4.50	-5.55	-6.84	-4.30	-4.73	-10.74
315.00	-9.93	-12.95	-5.58	-8.47	-2.42	2.25	3.10	0.21	-4.77	-5.73	-4.74	-4.53	-10.74
330.00	-9.63	-11.49	-9.59	-8.08	-1.89	1.25	2.75	1.67	-2.75	-6.58	-6.49	-2.35	-10.74
345.00	-9.81	-10.70	-7.14	-3.91	-1.65	1.44	3.25	1.95	-3.67	-6.11	-3.23	-1.79	-10.74

5300MHz Composite Gain (2SS)													
Freq	5300.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-12.44	-16.01	-11.17	-9.32	-4.27	-1.71	0.14	0.59	-2.75	-4.00	-5.84	-5.91	-13.66
15.00	-12.68	-17.51	-11.17	-4.21	-0.51	1.09	0.86	0.46	-2.57	-3.77	-6.24	-5.80	-13.66
30.00	-12.82	-13.20	-9.18	-5.09	-4.12	0.09	1.64	0.50	-2.24	-2.94	-8.04	-8.77	-13.66
45.00	-12.13	-10.97	-9.81	-8.04	-2.22	1.26	0.98	-0.49	-2.22	-4.21	-8.90	-9.23	-13.66
60.00	-12.29	-9.93	-12.09	-7.60	-3.02	0.10	2.91	0.34	-3.33	-7.87	-9.28	-9.65	-13.66
75.00	-12.36	-10.11	-14.64	-5.62	-1.97	4.24	5.68	3.55	-0.70	-4.89	-5.88	-9.61	-13.66
90.00	-11.66	-9.78	-14.49	-6.10	-2.87	5.34	6.15	4.43	1.01	-2.90	-5.68	-8.29	-13.66
105.00	-11.97	-9.88	-13.34	-6.91	-3.94	3.67	5.61	4.11	0.30	-4.75	-6.28	-8.27	-13.66
120.00	-12.52	-10.28	-12.58	-7.73	-3.01	1.41	3.10	1.86	-1.69	-5.40	-8.55	-8.18	-13.66
135.00	-12.25	-11.02	-9.38	-6.76	-1.52	3.88	2.83	1.26	-2.11	-5.27	-6.90	-7.05	-13.66
150.00	-12.44	-12.90	-8.68	-6.19	-3.41	1.66	2.43	1.06	-2.11	-3.07	-7.07	-9.09	-13.66
165.00	-13.13	-13.36	-8.50	-4.44	-0.13	2.54	2.85	2.29	-3.33	-4.66	-7.13	-7.80	-13.66
180.00	-12.78	-12.14	-8.79	-6.97	-6.90	-0.32	-0.98	-1.50	-4.34	-5.34	-9.06	-6.71	-13.66
195.00	-12.44	-11.33	-10.52	-6.53	-3.90	-2.91	-1.98	-2.49	-5.96	-7.25	-9.90	-6.71	-13.66
210.00	-12.64	-11.13	-9.71	-6.49	-4.53	-2.62	-2.97	-2.57	-4.68	-4.86	-9.41	-5.76	-13.66
225.00	-13.07	-11.14	-6.89	-4.63	-4.55	-3.53	-0.49	-2.62	-5.70	-3.83	-6.12	-6.49	-13.66
240.00	-12.79	-11.52	-6.79	-2.57	-1.14	-1.34	-3.02	-5.88	-5.08	-4.74	-8.34	-8.95	-13.66
255.00	-13.70	-12.29	-7.99	-1.45	-1.55	-0.96	3.17	1.19	-3.48	-7.15	-14.65	-8.45	-13.66
270.00	-13.81	-12.95	-5.94	-0.78	-0.06	1.88	3.64	0.32	-6.35	-8.56	-14.17	-8.41	-13.66
285.00	-13.24	-13.62	-4.44	-0.52	-1.59	1.27	1.05	-2.00	-5.43	-9.21	-8.81	-8.58	-13.66
300.00	-12.95	-14.28	-5.25	-3.08	-4.13	-3.56	-5.93	-6.37	-7.38	-9.65	-6.86	-7.74	-13.66
315.00	-12.94	-14.87	-8.37	-11.43	-5.31	-0.10	0.37	-2.69	-7.44	-8.64	-6.91	-7.54	-13.66



330.00	-12.62	-14.15	-11.95	-11.06	-4.87	-1.65	-0.25	-1.33	-5.74	-9.59	-9.31	-5.13	-13.66
345.00	-12.82	-13.70	-10.09	-6.92	-4.47	-1.14	0.38	-1.04	-6.67	-9.11	-5.88	-4.65	-13.66

Ant1													
Freq	5600.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-6	-8.06	-8.14	-2.57	0.79	1.98	2.19	-1.27	-9.53	-13.45	-4.08	-1.8	-6.69
15.00	-6.3	-9.02	-5.73	-1.51	-0.4	1.9	0.53	-2.66	-8.94	-11.34	-7.48	-3	-6.69
30.00	-6.29	-11.14	-8.57	-4.69	-2.21	2.94	3.53	-1.47	-10.47	-14.11	-8.3	-2.43	-6.69
45.00	-6.24	-11.74	-16.78	-1.75	-1.64	-1.03	1.01	-3.92	-9.18	-7.16	-8.05	-1.82	-6.69
60.00	-6.2	-11.93	-9.95	-2.54	-0.07	4.98	4.6	-5.99	-6.93	-4.89	-6.8	-4.15	-6.69
75.00	-5.96	-13.2	-7.31	-5.19	1.04	5.43	4.66	-4.17	-15.84	-6.51	-7.16	-5.28	-6.69
90.00	-6.16	-14.84	-7.5	-7.36	2.32	5.86	1.59	-2.93	-14.46	-5.69	-3.95	-3.01	-6.69
105.00	-6.32	-13.91	-7.72	-4.85	2.22	6.21	4.43	-2.46	-11.46	-9.81	-6.22	-1.56	-6.69
120.00	-6.46	-10.33	-10.75	-1.89	-0.78	1.92	3.24	-3.33	-9.01	-14.95	-10.84	-1.63	-6.69
135.00	-6.48	-7.3	-10.03	-3.9	-2.14	3.05	0.33	-7.51	-10.14	-15.85	-6.03	-1.26	-6.69
150.00	-6.52	-6.2	-4.25	-3.77	1.24	4.17	0.59	-2.45	-7.23	-10.94	-7.63	-4.27	-6.69
165.00	-6.63	-7.5	-6.53	-3.84	1.03	3.88	-1.78	-8.9	-7.07	-4.7	-7.98	-6.69	-6.69
180.00	-6.51	-9.29	-8.62	-4.56	-2.95	0.99	-1.66	-5.78	-8.11	-8.94	-9.43	-4.39	-6.69
195.00	-6.5	-8.02	-8.3	-15.95	-6.16	-4.31	-8.8	-7.59	-7.05	-4.27	-6.1	-5.93	-6.69
210.00	-6.4	-6.99	-7.42	-6.34	-9.51	-5.1	-8.51	-5.12	-11.71	-6.1	-7.82	-3.84	-6.69
225.00	-6.22	-6.1	-8.45	-5.04	-12.53	-7.85	-15.26	-7.55	-4.66	-5.07	-2.7	0.38	-6.69
240.00	-6.34	-5.39	-6.26	-1.72	2.18	0.9	-0.51	-3.94	-4.15	-5.34	-0.39	0.02	-6.69
255.00	-6.42	-5.26	-3.42	1.22	3.68	2.62	5.74	0.18	-1.38	-1.59	-4.47	-2.18	-6.69
270.00	-6.34	-5.67	-3.21	1.51	3.56	6.03	7.05	0.25	-2.73	-0.8	-2.36	-3.48	-6.69
285.00	-6.48	-6.99	-5.36	0.3	2.68	6.3	4.99	-3.82	-2.39	-0.39	0.45	-3.77	-6.69
300.00	-6.24	-9.04	-11.15	-2.62	0.17	-2.87	0	0.25	-10	-3.07	0.51	-3.35	-6.69
315.00	-5.99	-9.65	-17.47	-7.01	-4.42	-0.48	-3.35	-14.1	-1.76	-8.59	-3.33	-1.87	-6.69
330.00	-6.04	-9.26	-12.04	-4.86	-2.95	0.04	-0.68	-5.94	-22.62	-12.26	-1.77	-0.32	-6.69
345.00	-5.78	-8.35	-15.33	-5.96	-3.54	0.68	-0.56	-5.99	-6.3	-7.91	-3.41	-1.56	-6.69

Ant4													
Freq	5600.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-10.37	-17.58	-10.1	-7.3	-6.34	-1.56	1.38	1.85	-1.72	-3.5	-6.41	-4.81	-10.87
15.00	-10.56	-15.05	-12.85	-6.97	-3.26	-0.1	2.65	2.33	-0.22	-0.56	-6.57	-6.5	-10.87
30.00	-11.1	-13.78	-9.42	-5.16	-3.05	-0.73	-0.48	1.91	0.57	-1.92	-9.62	-10.35	-10.87
45.00	-11.28	-12.59	-12.18	-5.65	-4.73	-2.2	-1.08	0.02	0.06	-3.26	-8.01	-10.87	-10.87
60.00	-11.68	-11.4	-8.71	-6.92	-1.76	1.38	1.98	1.92	-1.82	-5.79	-6.65	-10.1	-10.87
75.00	-13.06	-11.57	-7.45	-10.18	-3.21	1.84	2.69	2.75	0.82	-2.77	-3.62	-8.61	-10.87
90.00	-12.84	-10.94	-7.06	-4.29	-0.34	3.06	5.13	4.08	2.69	-0.94	-2.55	-6.62	-10.87
105.00	-12.6	-11.77	-6.4	-4.44	-0.24	2.89	3.29	3.31	0.2	-1.67	-4.13	-6	-10.87
120.00	-12.51	-13.18	-8.6	-4.56	-2.34	2.62	3.72	3.23	-0.05	-4.07	-7.69	-5.73	-10.87

135.00	-11.93	-13.63	-13.02	-4.13	-3.84	1.46	1.65	1.5	0.21	-3.03	-7.64	-5.87	-10.87
150.00	-11.51	-12.14	-9.04	-4.97	-3.27	-0.39	2.28	2.35	-1.99	-2.1	-4.97	-5.9	-10.87
165.00	-12.59	-12.23	-9.29	-3.64	-0.68	2.5	4.44	4.17	0.34	-4.19	-6.39	-6.41	-10.87
180.00	-12.83	-14.94	-7.13	-3.77	-4.21	-0.76	2.15	1.8	-3.37	-4.64	-7.17	-7.17	-10.87
195.00	-12.93	-11.77	-7.46	-9.96	-6.25	-0.82	-0.37	1.3	-4.14	-4.86	-8.09	-7.04	-10.87
210.00	-12.62	-8.02	-11.95	-5.06	-5.13	-1.04	-1.79	-1.82	-3.62	-5.82	-8.06	-7.85	-10.87
225.00	-11.82	-7.32	-6.64	-2.71	-3.24	-1.1	-3.14	-3.8	-4.26	-4.11	-6.16	-8.07	-10.87
240.00	-11.01	-8.4	-5.82	-2.87	-3.26	-1.98	-6.28	-5.18	-0.66	-4.4	-7.45	-9.84	-10.87
255.00	-10.86	-9.83	-8.52	-4.77	-2.76	-2.86	-1.16	1.23	-5.34	-8.03	-16.74	-10.08	-10.87
270.00	-10.36	-10.5	-9.93	-4.42	-5.05	-7.25	-3.11	-3.11	-6.8	-13.1	-10.84	-9.32	-10.87
285.00	-10.76	-11.7	-8.59	-5.91	-8.52	-6.37	-2.01	-0.71	-13.75	-12.66	-9.35	-9.62	-10.87
300.00	-11.18	-11.17	-8.35	-6.86	-8.08	-3.35	-7.3	-19.89	-17.2	-11.04	-10.55	-10	-10.87
315.00	-11.19	-11.92	-7.43	-6.97	-6.14	-6.93	-9.89	-7.15	-8.04	-9.83	-12.14	-9.96	-10.87
330.00	-11.16	-15.29	-9.29	-8.21	-8.63	-3.13	0.72	-0.56	-5.2	-11.51	-14.67	-8.28	-10.87
345.00	-11.17	-21.39	-10.95	-10.78	-9.97	-3.49	-0.16	-0.17	-3.68	-7.2	-7.5	-6.38	-10.87

5600MHz Composite Gain (1SS)													
Freq	5600.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-4.90	-8.57	-6.05	-1.61	0.95	3.40	4.80	3.44	-1.76	-4.11	-2.16	-0.16	-5.52
15.00	-5.16	-8.51	-5.57	-0.81	1.30	3.97	4.66	3.20	-0.52	-1.36	-4.00	-1.56	-5.52
30.00	-5.36	-9.35	-5.97	-1.91	0.39	4.31	4.76	3.39	-0.29	-3.02	-5.92	-2.51	-5.52
45.00	-5.39	-9.14	-11.17	-0.47	-0.04	1.41	3.04	1.28	-0.37	-1.98	-5.02	-2.21	-5.52
60.00	-5.50	-8.65	-6.30	-1.45	2.14	6.38	6.40	1.85	-0.99	-2.32	-3.71	-3.61	-5.52
75.00	-5.79	-9.34	-4.37	-4.32	2.18	6.83	6.74	2.97	-1.00	-1.43	-2.20	-3.78	-5.52
90.00	-5.86	-9.66	-4.27	-2.68	4.10	7.58	6.55	4.27	0.81	0.02	-0.21	-1.62	-5.52
105.00	-5.89	-9.76	-4.02	-1.63	4.09	7.72	6.89	3.91	-0.79	-1.81	-2.10	-0.49	-5.52
120.00	-5.96	-8.63	-6.60	-0.11	1.49	5.29	6.49	3.57	-0.41	-4.90	-6.11	-0.43	-5.52
135.00	-5.77	-6.89	-8.39	-1.00	0.06	5.30	4.03	1.12	-0.50	-4.25	-3.79	-0.25	-5.52
150.00	-5.65	-5.66	-3.31	-1.34	2.28	5.20	4.49	3.29	-1.21	-2.43	-3.19	-2.04	-5.52
165.00	-6.10	-6.54	-4.79	-0.73	3.23	6.23	4.89	2.90	0.41	-1.43	-4.14	-3.54	-5.52
180.00	-6.10	-8.65	-4.83	-1.15	-0.55	3.17	3.46	1.82	-2.41	-3.52	-5.22	-2.66	-5.52
195.00	-6.12	-6.68	-4.86	-9.44	-3.19	0.62	-0.59	0.96	-2.46	-1.55	-4.03	-3.46	-5.52
210.00	-5.95	-4.48	-6.38	-2.67	-4.04	0.18	-1.51	-0.30	-3.75	-2.95	-4.93	-2.61	-5.52
225.00	-5.57	-3.68	-4.49	-0.79	-3.69	-0.82	-4.23	-2.46	-1.45	-1.57	-1.25	0.15	-5.52
240.00	-5.35	-3.75	-3.03	0.73	2.89	2.59	0.09	-1.53	0.78	-1.85	-0.21	-0.57	-5.52
255.00	-5.35	-4.24	-2.59	1.74	4.05	3.32	5.97	3.73	-0.13	-1.22	-5.59	-2.25	-5.52
270.00	-5.11	-4.74	-2.93	2.05	3.29	4.72	6.39	1.74	-1.52	-1.92	-2.59	-2.91	-5.52
285.00	-5.35	-6.02	-3.82	0.75	1.78	5.11	5.19	0.88	-3.32	-1.51	-0.13	-3.20	-5.52
300.00	-5.35	-7.03	-6.63	-1.47	0.00	-0.10	0.11	-1.95	-9.86	-3.16	-0.36	-3.04	-5.52
315.00	-5.20	-7.70	-8.06	-3.98	-2.23	-0.11	-3.01	-6.94	-1.33	-6.18	-3.65	-2.00	-5.52
330.00	-5.22	-8.75	-7.55	-3.36	-2.32	1.61	3.06	0.17	-7.11	-8.87	-3.01	-0.41	-5.52
345.00	-5.05	-9.61	-9.86	-5.03	-3.16	1.85	2.65	0.41	-1.88	-4.54	-2.21	-0.63	-5.52

5600MHz Composite Gain (2SS)													
Freq	5600.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-7.66	-10.61	-9.01	-4.32	-1.45	0.56	1.80	0.56	-4.06	-6.09	-5.09	-3.05	-8.30
15.00	-7.93	-11.06	-7.97	-3.43	-1.60	1.01	1.72	0.52	-2.68	-3.22	-7.00	-4.41	-8.30
30.00	-8.06	-12.26	-8.97	-4.92	-2.61	1.48	1.97	0.54	-2.11	-4.68	-8.91	-4.79	-8.30
45.00	-8.07	-12.14	-13.90	-3.28	-2.92	-1.58	0.09	-1.52	-2.46	-4.79	-8.03	-4.32	-8.30
60.00	-8.13	-11.66	-9.29	-4.20	-0.83	3.54	3.48	-0.44	-3.66	-5.32	-6.72	-6.18	-8.30
75.00	-8.20	-12.31	-7.38	-7.00	-0.58	4.00	3.79	0.54	-2.10	-4.25	-5.04	-6.63	-8.30
90.00	-8.33	-12.47	-7.27	-5.56	1.19	4.68	3.71	1.86	-0.24	-2.70	-3.19	-4.45	-8.30
105.00	-8.41	-12.71	-7.01	-4.64	1.16	4.86	3.90	1.32	-2.52	-4.06	-5.05	-3.24	-8.30
120.00	-8.51	-11.53	-9.54	-3.02	-1.49	2.28	3.49	1.09	-2.54	-6.74	-8.99	-3.21	-8.30
135.00	-8.40	-9.40	-11.27	-4.01	-2.91	2.33	1.04	-1.00	-2.42	-5.82	-6.76	-2.98	-8.30
150.00	-8.33	-8.22	-6.02	-4.33	-0.45	2.46	1.52	0.58	-3.86	-4.58	-6.10	-5.01	-8.30
165.00	-8.66	-9.25	-7.69	-3.74	0.26	3.24	2.36	1.37	-1.95	-4.44	-7.11	-6.55	-8.30
180.00	-8.61	-11.25	-7.81	-4.15	-3.53	0.20	0.65	-0.51	-5.12	-6.28	-8.15	-5.56	-8.30
195.00	-8.62	-9.50	-7.86	-12.00	-6.20	-2.22	-2.80	-1.18	-5.36	-4.55	-6.98	-6.45	-8.30
210.00	-8.48	-7.47	-9.12	-5.65	-6.79	-2.61	-3.96	-3.16	-6.00	-5.96	-7.94	-5.40	-8.30
225.00	-8.17	-6.67	-7.45	-3.72	-5.77	-3.28	-5.89	-5.28	-4.46	-4.56	-4.09	-2.05	-8.30
240.00	-8.08	-6.64	-6.03	-2.26	0.26	-0.31	-2.50	-4.52	-2.06	-4.84	-2.62	-2.56	-8.30
255.00	-8.10	-6.97	-5.26	-0.82	1.56	0.69	3.54	0.74	-2.92	-3.71	-7.23	-4.54	-8.30
270.00	-7.90	-7.45	-5.38	-0.51	1.11	3.22	4.44	-1.11	-4.30	-3.56	-4.79	-5.48	-8.30
285.00	-8.11	-8.74	-6.68	-1.78	-0.01	3.52	2.77	-1.99	-5.09	-3.15	-2.13	-5.78	-8.30
300.00	-8.04	-9.98	-9.53	-4.24	-2.23	-3.10	-2.27	-2.72	-12.25	-5.44	-2.17	-5.51	-8.30
315.00	-7.85	-10.64	-10.03	-6.99	-5.20	-2.60	-5.49	-9.36	-3.85	-9.17	-5.80	-4.25	-8.30
330.00	-7.89	-11.30	-10.45	-6.22	-4.92	-1.26	0.08	-2.47	-8.13	-11.87	-4.56	-2.69	-8.30
345.00	-7.69	-11.15	-12.61	-7.73	-5.66	-0.92	-0.36	-2.17	-4.80	-7.54	-4.99	-3.33	-8.30

Ant1													
Freq	5800.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-5.3	-7.4	-8.22	-3.75	0.26	1.44	-1.93	-4.41	-8.47	-4.79	-2.38	-2.39	-10.89
15.00	-5.75	-6.32	-4	0.52	1.15	1.51	-7.2	-11.27	-7.48	-9.15	-5.59	-2.85	-10.89
30.00	-5.73	-6.52	-5.41	-4.51	-0.89	3.27	0.65	-8.14	-8.55	-8.67	-11.63	-2.77	-10.89
45.00	-5.9	-7.07	-8.17	-1.51	-1.14	1.1	1.03	-4.8	-12.57	-3.4	-7.91	-4.67	-10.89
60.00	-6.12	-7.16	-6.14	-0.67	-1.71	2.82	2.57	-3.12	-5	-4.24	-3.4	-8.71	-10.89
75.00	-5.83	-7.05	-5.4	-2.86	2.69	3.71	0.78	-7.23	-4.54	-2.03	-8.98	-10.89	-10.89
90.00	-5.99	-7.16	-8.16	-4.61	3.18	3.2	-2.91	-7.99	-6.33	-6.4	-13.67	-9.31	-10.89
105.00	-6.32	-8.88	-7.93	-3.64	3.31	5.3	-2.79	-5.28	-2.68	-3.89	-15.77	-4.68	-10.89
120.00	-5.98	-12.03	-5.8	0.98	1.03	4.62	1.36	-18.9	-3.79	-3.43	-13.12	-2.7	-10.89
135.00	-6.21	-10.32	-5.25	-2.28	1.18	0.65	-2.36	-11.09	-8.23	-5.49	-7.6	-0.87	-10.89
150.00	-6.75	-6.29	-4.51	-2.44	0.45	3.13	-2.04	-4.46	-8.47	-8.5	-6.57	-1.93	-10.89



165.00	-6.85	-5.17	-3.83	-2.01	1.11	1.02	-1.88	-4.19	-7.24	-10.91	-7.46	-6.39	-10.89
180.00	-6.82	-6.49	-9.26	-6.16	-2.44	0.91	-2.24	-3.63	-4.33	-8.4	-7.23	-5.3	-10.89
195.00	-6.87	-8.84	-7.95	-12.43	-8.38	-8.06	-8.2	-9.25	-6.38	-7.38	-6.06	-5.21	-10.89
210.00	-6.44	-10.51	-8.75	-9.44	-11.12	-5.61	-6.51	-6.98	-15.83	-4.19	-6.33	-8.34	-10.89
225.00	-5.92	-9.11	-6.23	-4.44	-8.16	-7.19	-7.57	-5.43	-5.79	-3.56	-6.46	-1.71	-10.89
240.00	-6.04	-9.37	-3.84	-2.43	2.02	2.5	-2.27	-6.5	-2.56	-8.87	0.03	0.81	-10.89
255.00	-6.05	-10.47	-4.57	1.65	2.78	1.37	3.98	-3.44	1.38	-0.86	-0.9	0.08	-10.89
270.00	-6	-12.19	-5.25	3.15	3.23	5.37	6.22	-2.39	0.22	-2.24	0.24	-2.2	-10.89
285.00	-6.22	-14.43	-6.36	2.98	3.17	3.57	2.23	-3.69	0.25	-2.31	0.6	-3.32	-10.89
300.00	-6.16	-15.95	-8.67	-3.48	1.02	-2.69	2.22	0.38	-15.01	-4.99	-1.27	-2.07	-10.89
315.00	-5.63	-15.36	-9.05	-4.66	-3.43	-0.14	-6.51	-14.51	-5.28	-4.52	-3.79	0.03	-10.89
330.00	-5.5	-12.92	-7.91	-3.82	-5.66	-4.25	-5.78	-7.65	-9.33	-7.49	-3.13	0.61	-10.89
345.00	-5.19	-10.05	-8.91	-4.56	-0.65	0.28	-4.18	-10.24	-6.94	-8.66	-4.27	-1.36	-10.89

Ant4													
Freq	5800.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-7.02	-11.37	-11.86	-8.22	-3.25	-4.4	0.94	1.1	-1.01	-3.36	-6.49	-5.99	-16.82
15.00	-7.33	-11.72	-10.28	-8	-2.63	-2.55	1.36	1.9	0.05	-1.1	-7.22	-8.84	-16.82
30.00	-7.78	-11.43	-12.69	-8	-4.34	-1.35	-0.67	1.33	-0.16	-2.86	-8.51	-8.28	-16.82
45.00	-7.42	-11.74	-12.08	-6.77	-2.56	-0.19	1.01	-0.23	-1.25	-3.97	-7.39	-7.73	-16.82
60.00	-6.94	-11.35	-10.32	-10.39	-2.48	-0.18	1.52	0.76	-2.07	-4.45	-7.76	-8.2	-16.82
75.00	-7.01	-11.08	-8.95	-4.33	-2.46	1.79	2.37	2.88	1.88	-0.99	-4.33	-7.18	-16.82
90.00	-6.86	-10.66	-8.82	-2.19	-1.26	1.85	3.62	3.04	2.39	0.73	-5.47	-5.57	-16.82
105.00	-6.87	-10.41	-8.69	-4.05	-1.24	0.82	1.97	1.92	0.7	-1.71	-7.46	-4.63	-16.82
120.00	-7.17	-10.29	-7.85	-5.71	-0.81	2.67	4.03	2.95	1.16	-3.03	-10.4	-4.4	-16.82
135.00	-6.94	-11.98	-7.92	-4.67	-0.78	2.24	3.75	2.38	0.03	-2.84	-10.65	-5.52	-16.82
150.00	-6.76	-14.86	-11.15	-4.75	-4.35	-1.01	0.18	1.37	-1.1	-1.42	-5.61	-6.71	-16.82
165.00	-7.12	-13.46	-8.62	-3.6	-0.65	0.28	2.09	3.24	0.35	-3.85	-4.43	-9.16	-16.82
180.00	-7.28	-10.87	-8.23	-3.62	-1.59	0.77	0.97	1.51	-2.67	-3.84	-7.88	-9.63	-16.82
195.00	-7.3	-10.28	-8.17	-4.82	-6.15	-1.2	-5.5	-1.38	-6.51	-10.21	-9.27	-8.13	-16.82
210.00	-7.13	-9.4	-8.64	-7.48	-3.79	-0.3	-1.52	-3.48	-5.09	-6.39	-8.22	-9.35	-16.82
225.00	-6.85	-8.1	-9.51	-2.27	-4.7	-1.12	-2.04	-3.67	-4.32	-5.45	-5.85	-12.66	-16.82
240.00	-6.95	-6.7	-8.89	-3.99	-4.81	-2.02	-6.07	-5.59	-3.06	-4.17	-7.51	-16.82	-16.82
255.00	-7.44	-7.18	-7.74	-4.23	-3.24	-2.09	0.39	-0.82	-9.05	-6.55	-19.09	-15.29	-16.82
270.00	-7.46	-7.74	-9.06	-3.12	-2.28	-1.23	-0.63	-0.78	-6.59	-10.71	-20.46	-13.81	-16.82
285.00	-7.81	-8.42	-10.2	-3.72	-6.93	-6.74	-5	-3.94	-10.93	-11.82	-13.88	-12.66	-16.82
300.00	-7.72	-9.65	-11.9	-6.47	-8.62	-3.36	-3.77	-11.55	-16.06	-13.98	-12.26	-10.4	-16.82
315.00	-7.31	-10.64	-13.37	-8.76	-5.77	-4.28	-6.96	-6.93	-9.09	-12.12	-12.12	-6.96	-16.82
330.00	-7.14	-11.15	-12.7	-8.7	-9.59	-5.85	-0.91	-1.84	-6.78	-12.57	-14.61	-5.19	-16.82
345.00	-7.33	-10.92	-12.74	-10.02	-7.65	-6.83	-3.23	-1.81	-4.19	-7.57	-8.82	-4.5	-16.82

5800MHz Composite Gain (1SS)

Freq	5800.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-3.11	-6.15	-6.84	-2.69	1.69	2.01	2.63	1.79	-0.95	-1.04	-1.18	-0.99	-10.35
15.00	-3.49	-5.60	-3.57	0.28	2.47	2.73	1.10	0.61	0.09	-1.21	-3.36	-2.33	-10.35
30.00	-3.68	-5.62	-5.30	-3.07	0.57	4.27	3.03	0.84	-0.37	-2.28	-6.92	-2.08	-10.35
45.00	-3.62	-6.08	-6.90	-0.74	1.19	3.49	4.03	0.79	-2.17	-0.67	-4.64	-3.06	-10.35
60.00	-3.51	-5.99	-4.97	-1.23	0.92	4.46	5.07	2.05	-0.40	-1.33	-2.30	-5.44	-10.35
75.00	-3.39	-5.82	-3.98	-0.55	3.50	5.81	4.62	2.23	2.26	1.52	-3.34	-5.83	-10.35
90.00	-3.40	-5.72	-5.47	-0.31	4.25	5.56	3.97	2.18	2.09	0.89	-5.63	-4.23	-10.35
105.00	-3.58	-6.60	-5.29	-0.83	4.34	6.36	2.92	2.06	2.18	0.28	-7.65	-1.64	-10.35
120.00	-3.54	-8.11	-3.75	1.27	3.17	6.71	5.81	0.61	2.04	-0.22	-8.64	-0.50	-10.35
135.00	-3.56	-8.10	-3.47	-0.38	3.27	4.49	4.23	1.04	-0.14	-1.05	-5.98	0.12	-10.35
150.00	-3.74	-6.55	-4.20	-0.51	1.39	4.31	2.15	1.95	-1.02	-1.25	-3.07	-0.98	-10.35
165.00	-3.97	-5.35	-2.89	0.24	3.28	3.67	3.34	3.31	0.37	-3.67	-2.80	-4.65	-10.35
180.00	-4.04	-5.40	-5.72	-1.79	1.01	3.85	2.52	2.33	-0.45	-2.81	-4.54	-4.19	-10.35
195.00	-4.07	-6.52	-5.05	-4.81	-4.18	-0.96	-3.74	-1.44	-3.43	-5.67	-4.51	-3.54	-10.35
210.00	-3.77	-6.93	-5.68	-5.39	-3.69	0.45	-0.65	-2.04	-5.89	-2.21	-4.21	-5.82	-10.35
225.00	-3.36	-5.58	-4.71	-0.28	-3.25	-0.62	-1.36	-1.50	-2.01	-1.44	-3.14	-2.55	-10.35
240.00	-3.47	-4.92	-2.99	-0.16	2.27	3.54	-0.95	-3.02	0.20	-3.20	0.06	-1.13	-10.35
255.00	-3.71	-5.66	-3.00	2.21	3.29	2.82	5.38	0.98	0.65	-0.24	-2.90	-1.56	-10.35
270.00	-3.69	-6.67	-3.94	3.58	3.92	5.69	6.46	1.46	0.48	-2.47	-2.00	-3.18	-10.35
285.00	-3.97	-7.90	-5.06	3.27	2.52	2.87	2.36	-0.80	-0.64	-2.81	-0.91	-3.78	-10.35
300.00	-3.89	-9.23	-7.13	-1.84	0.48	-0.01	2.74	-0.67	-12.51	-5.36	-2.12	-2.26	-10.35
315.00	-3.42	-9.67	-7.93	-3.46	-1.51	1.04	-3.72	-6.91	-3.97	-4.50	-3.98	0.23	-10.35
330.00	-3.27	-8.98	-6.97	-2.91	-4.39	-2.00	0.00	-1.26	-4.95	-6.65	-4.09	1.20	-10.35
345.00	-3.18	-7.46	-7.61	-3.86	-0.45	0.44	-0.68	-2.03	-2.45	-5.09	-3.24	0.22	-10.35

5800MHz Composite Gain (2SS)													
Freq	5800.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-6.08	-8.95	-9.67	-5.43	-1.15	-0.56	-0.26	-0.83	-3.30	-4.02	-3.97	-3.83	-12.91
15.00	-6.47	-8.23	-6.09	-1.92	-0.34	-0.06	-1.08	-0.91	-2.25	-3.48	-6.33	-4.89	-12.91
30.00	-6.64	-8.32	-7.68	-5.91	-2.28	1.55	0.04	-1.22	-2.58	-4.86	-9.80	-4.70	-12.91
45.00	-6.59	-8.81	-9.70	-3.39	-1.79	0.50	1.02	-1.94	-3.95	-3.68	-7.64	-5.94	-12.91
60.00	-6.51	-8.77	-7.75	-3.24	-2.08	1.57	2.08	-0.76	-3.29	-4.34	-5.05	-8.45	-12.91
75.00	-6.38	-8.61	-6.82	-3.53	0.84	2.86	1.65	0.27	-0.24	-1.48	-6.06	-8.65	-12.91
90.00	-6.40	-8.57	-8.48	-3.23	1.50	2.58	1.48	0.36	-0.07	-1.51	-7.87	-7.05	-12.91
105.00	-6.59	-9.58	-8.29	-3.84	1.61	3.61	0.21	-0.33	-0.67	-2.66	-9.87	-4.65	-12.91
120.00	-6.53	-11.07	-6.71	-1.19	0.21	3.75	2.90	-0.03	-0.64	-3.23	-11.55	-3.47	-12.91
135.00	-6.56	-11.07	-6.38	-3.31	0.31	1.52	1.69	-0.44	-2.38	-3.97	-8.86	-2.60	-12.91
150.00	-6.75	-8.74	-6.67	-3.44	-1.32	1.54	-0.79	-0.63	-3.38	-3.65	-6.06	-3.69	-12.91
165.00	-6.98	-7.58	-5.60	-2.73	0.32	0.67	0.54	0.95	-1.96	-6.08	-5.69	-7.56	-12.91
180.00	-7.04	-8.15	-8.71	-4.71	-1.99	0.84	-0.34	-0.34	-3.42	-5.55	-7.54	-6.95	-12.91



195.00	-7.08	-9.50	-8.06	-7.14	-7.12	-3.40	-6.64	-3.73	-6.44	-8.57	-7.37	-6.43	-12.91
210.00	-6.77	-9.92	-8.69	-8.35	-6.06	-2.19	-3.33	-4.89	-7.75	-5.15	-7.17	-8.82	-12.91
225.00	-6.36	-8.58	-7.57	-3.22	-6.09	-3.17	-3.98	-4.46	-4.99	-4.40	-6.14	-4.38	-12.91
240.00	-6.47	-7.83	-5.67	-3.14	-0.17	0.80	-3.77	-6.02	-2.80	-5.91	-2.28	-2.13	-12.91
255.00	-6.69	-8.52	-5.87	-0.36	0.74	-0.02	2.55	-1.94	-1.25	-2.83	-3.84	-2.81	-12.91
270.00	-6.67	-9.42	-6.75	1.06	1.30	3.22	4.03	-1.51	-1.97	-4.67	-2.73	-4.92	-12.91
285.00	-6.94	-10.46	-7.87	0.81	0.56	0.95	-0.03	-3.81	-2.44	-4.86	-2.26	-5.85	-12.91
300.00	-6.87	-11.75	-9.99	-4.72	-1.54	-3.01	0.18	-2.36	-15.50	-7.48	-3.95	-4.49	-12.91
315.00	-6.39	-12.39	-10.69	-6.24	-4.44	-1.73	-6.73	-9.24	-6.78	-6.83	-6.21	-2.19	-12.91
330.00	-6.24	-11.95	-9.68	-5.61	-7.19	-4.98	-2.70	-3.84	-7.87	-9.33	-5.84	-1.39	-12.91
345.00	-6.13	-10.46	-10.42	-6.48	-2.87	-1.96	-3.68	-4.24	-5.35	-8.08	-5.97	-2.65	-12.91

Ant3													
Freq	6175.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-8.09	-8.28	-8.23	-10.8	-12.69	-10.85	-7.98	-5.1	-9.55	-12.04	-14.41	-5.45	-14.8
15.00	-7.98	-9.31	-9.61	-9.31	-12.86	-14.01	-13.21	-6.03	-8.99	-10.58	-8.45	-4.81	-14.8
30.00	-7.81	-11.02	-7.41	-9.08	-12.85	-5.5	-7.02	-6.84	-11.09	-9.77	-14.81	-6.14	-14.8
45.00	-7.6	-10.42	-6.05	-10.39	-9.75	-5.18	-4.97	-7.53	-8.78	-13.93	-13.48	-6.94	-14.8
60.00	-7.5	-8.67	-6.5	-10.43	-11.39	-5.01	-4.01	-12.18	-10.23	-21.74	-9.67	-5.84	-14.8
75.00	-7.54	-7.97	-5.76	-8.65	-8.05	-3.08	2.42	-5.48	-4.57	-9.67	-10.53	-6.29	-14.8
90.00	-7.78	-8.52	-5.75	-11.69	-8.09	1.24	2.03	-6.66	-10.37	-6.64	-12.39	-9.41	-14.8
105.00	-8.15	-8.73	-5.26	-6.99	-4.48	-1.88	1.68	-1.4	-9.67	-8.44	-7.55	-14.8	-14.8
120.00	-8.01	-8.46	-5.03	-8.49	-6.25	0.3	1.29	1.34	-2.16	-4.57	-5.88	-12.29	-14.8
135.00	-7.71	-7.8	-11.2	-9.76	-4.62	2.02	1.2	-0.03	-4.71	-7.2	-8	-7.36	-14.8
150.00	-7.53	-8.39	-8.1	-16.62	-16.55	-4.82	2.91	1.58	-1.64	-3.9	-7.35	-4.01	-14.8
165.00	-7.7	-9.34	-16.49	-7.8	-7.68	-1.03	3.18	1.56	-4.57	-5.17	-9.2	-3.19	-14.8
180.00	-7.82	-8.09	-8.37	-7.49	-4.91	-0.73	0.29	1.63	-0.82	-4.75	-6.5	-5.5	-14.8
195.00	-8.17	-7.55	-7.56	-7.06	-9.48	-0.71	0.63	-1.65	-4.33	-2.84	-7.71	-3.63	-14.8
210.00	-8.17	-6.41	-7.06	-6.49	-10.38	2.15	2.68	0.57	-9.06	-2.59	-14.27	-0.72	-14.8
225.00	-7.76	-5.81	-3.44	-8.94	-18.77	-1.47	2.77	-1.13	-7.9	-6.99	-13.65	-1.44	-14.8
240.00	-7.82	-5.81	-3.51	-7.55	-7.83	0.93	3.54	1.41	-7.85	-8.15	-14.89	-2.88	-14.8
255.00	-8.07	-6.04	-6.17	-7.09	-10.71	3.95	3.24	1.24	-2.51	-10.31	-15.81	-3.91	-14.8
270.00	-8.14	-6.88	-7.26	-8.31	-7.43	1.53	5.44	3.48	-3.62	-11.53	-11.8	-4.05	-14.8
285.00	-8	-9.32	-7.87	-6.53	-5.99	4.15	2.95	2.74	-6.06	-12.34	-8.91	-4.44	-14.8
300.00	-7.97	-11.99	-6.27	-6.13	-12.41	1.6	2.82	-0.47	-7.01	-10.38	-12.03	-3.65	-14.8
315.00	-7.65	-11.35	-7.17	-12.81	-9.53	-4.53	-1.2	-5.05	-13.49	-21.5	-11.39	-4.11	-14.8
330.00	-7.79	-10.11	-8.18	-3.76	-10.6	-3.89	-3.65	-3.69	-10.14	-12.16	-17.61	-7.47	-14.8
345.00	-7.9	-9.7	-8.71	-9.24	-8.11	-6.48	-5.69	-6.15	-9.94	-14.46	-11.8	-7.74	-14.8

Ant6													
Freq	6175.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00

0.00	-3.5	-6.13	-8.59	-10.3	-4.57	4.26	5.26	1.21	-11.14	-10.16	-18.34	-6.09	-13.65
15.00	-3.47	-6.81	-9.06	-14.09	-5.23	2.83	4.79	3.61	-4.05	-3.99	-10.79	-9.19	-13.65
30.00	-3.55	-5.34	-10.15	-15.79	-8.13	-0.45	0.94	-3.24	-12.43	-7.86	-7.27	-3.63	-13.65
45.00	-3.75	-4.52	-6.65	-10.5	-8.17	-6.62	-3.3	-7.39	-17.8	-12.73	-5.81	-3.27	-13.65
60.00	-3.64	-4.54	-6.14	-5.73	-11.43	-0.39	0.05	-2.31	-7.03	-11.21	-7.37	-5.51	-13.65
75.00	-3.3	-4.64	-5.96	-4.73	-12.09	-2.51	-3.34	-8.14	-7.05	-11.57	-10.21	-6.43	-13.65
90.00	-3.09	-4.47	-7.02	-3.47	-8.43	-6.99	1.16	-2.23	-1.15	-7.79	-8.95	-7.04	-13.65
105.00	-2.91	-4.14	-7.22	-5.16	-6.17	-4.25	0.79	-2.78	-2.8	-10.75	-9.91	-6.04	-13.65
120.00	-2.88	-4.11	-9.1	-6.64	-4.29	-0.65	0.4	-3.5	-3.85	-7.96	-7.62	-4.41	-13.65
135.00	-2.88	-4.82	-8.58	-9.25	-4.06	0.59	-2.38	-7.95	-10.97	-7.79	-5.8	-3.35	-13.65
150.00	-2.95	-6.38	-4.93	-8.01	-9.72	-7.07	-11.55	-6.18	-8.24	-11.59	-7.64	-4.14	-13.65
165.00	-3.04	-7.24	-3.44	-5.89	-12.85	-6.36	-5.97	-6.66	-8.45	-9.53	-13.24	-7.05	-13.65
180.00	-3.05	-5.81	-7.6	-7.13	-8.11	-1.89	0.18	-1.43	-4.09	-7.08	-12.06	-13.07	-13.65
195.00	-3.08	-5.52	-7.22	-9.31	-8.64	-7.45	-6.59	-4.92	-11.63	-12.45	-7.26	-10.61	-13.65
210.00	-3.12	-6.86	-10.6	-8.19	-9.72	-8.39	-1.3	-4.15	-11.58	-16.73	-15.5	-8.28	-13.65
225.00	-3.05	-7.4	-3.98	-4.03	-4.92	-2.39	-1.84	-2.92	-7.44	-15.32	-11.44	-11.35	-13.65
240.00	-3.13	-5.39	-4.13	-8.55	-7.75	-1.1	1.03	-0.62	-6.39	-8.63	-13.36	-13.65	-13.65
255.00	-3.31	-3.43	-2.54	-10.89	-4.31	-0.03	5.59	0.84	-3.59	-14.79	-6.45	-9.91	-13.65
270.00	-3.45	-2.81	-1.16	-5.52	-4.05	-0.17	3.15	1.15	-4.65	-17.33	-5.56	-6.97	-13.65
285.00	-3.67	-2.71	-1.22	-4.79	-8.36	-2.94	2.45	0.04	-4.85	-9.48	-7.61	-6.62	-13.65
300.00	-3.83	-3.25	-2.61	-7.56	-7.62	-2.24	0.82	-0.9	-7.02	-10.59	-12.39	-9.05	-13.65
315.00	-3.96	-3.49	-4.56	-9.6	-7.9	0.13	4.12	1.59	-10.44	-14.54	-15.99	-9.72	-13.65
330.00	-3.85	-3.5	-8.13	-14.97	-18.16	2.69	5.12	2.59	-2.07	-7.29	-10.23	-4.76	-13.65
345.00	-3.58	-4	-12.26	-14.83	-11.09	-1.79	2.26	1.42	-6.77	-10.57	-11.38	-3.03	-13.65

6175MHz Composite Gain (1SS)													
Freq	6175.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-2.48	-4.13	-5.40	-7.54	-4.70	2.65	3.96	1.63	-7.30	-8.04	-13.14	-2.75	-11.20
15.00	-2.43	-4.96	-6.32	-8.36	-5.22	0.99	2.81	3.07	-3.16	-3.66	-6.53	-3.72	-11.20
30.00	-2.41	-4.71	-5.66	-8.79	-7.16	0.40	0.85	-1.84	-8.72	-5.75	-7.24	-1.78	-11.20
45.00	-2.45	-3.97	-3.33	-7.43	-5.91	-2.86	-1.08	-4.45	-9.16	-10.30	-5.81	-1.90	-11.20
60.00	-2.35	-3.35	-3.31	-4.76	-8.40	0.61	1.27	-2.90	-5.47	-11.96	-5.43	-2.66	-11.20
75.00	-2.15	-3.14	-2.85	-3.46	-6.83	0.22	3.02	-3.70	-2.71	-7.56	-7.36	-3.35	-11.20
90.00	-2.11	-3.25	-3.35	-3.63	-5.25	1.08	4.62	-1.16	-1.58	-4.19	-7.49	-5.13	-11.20
105.00	-2.13	-3.12	-3.17	-3.02	-2.27	0.03	4.26	0.95	-2.56	-6.51	-5.64	-6.35	-11.20
120.00	-2.06	-3.01	-3.82	-4.51	-2.20	2.85	3.87	2.26	0.05	-3.09	-3.70	-4.48	-11.20
135.00	-1.95	-3.17	-6.78	-6.49	-1.33	4.34	2.60	-0.11	-4.28	-4.48	-3.82	-2.12	-11.20
150.00	-1.93	-4.32	-3.36	-8.28	-9.47	-2.86	1.41	1.55	-1.32	-3.91	-4.48	-1.06	-11.20
165.00	-2.05	-5.22	-4.70	-3.78	-6.88	-0.28	2.77	1.40	-3.28	-4.07	-7.98	-1.90	-11.20
180.00	-2.10	-3.87	-4.97	-4.30	-3.35	1.72	3.25	3.24	0.71	-2.83	-5.83	-5.47	-11.20
195.00	-2.25	-3.47	-4.38	-5.10	-6.04	-0.43	0.76	-0.12	-4.22	-3.37	-4.47	-3.43	-11.20
210.00	-2.27	-3.62	-5.64	-4.29	-7.03	1.40	3.93	1.54	-7.22	-4.04	-11.85	-0.69	-11.20

225.00	-2.08	-3.56	-0.70	-3.13	-6.32	1.09	3.78	1.03	-4.66	-7.18	-9.46	-2.04	-11.20
240.00	-2.15	-2.59	-0.80	-5.03	-4.78	2.98	5.39	3.46	-4.08	-5.38	-11.08	-3.68	-11.20
255.00	-2.36	-1.63	-1.16	-5.77	-3.92	5.20	7.50	4.05	-0.02	-9.25	-6.92	-3.39	-11.20
270.00	-2.47	-1.60	-0.67	-3.79	-2.57	3.73	7.38	5.40	-1.11	-10.94	-5.12	-2.38	-11.20
285.00	-2.56	-2.39	-0.91	-2.61	-4.08	4.32	5.71	4.50	-2.42	-7.78	-5.23	-2.45	-11.20
300.00	-2.65	-3.55	-1.24	-3.81	-6.68	2.90	4.89	2.33	-4.00	-7.47	-9.20	-2.93	-11.20
315.00	-2.60	-3.55	-2.76	-8.05	-5.67	1.12	4.87	1.90	-8.82	-14.33	-10.38	-3.46	-11.20
330.00	-2.59	-3.18	-5.14	-4.66	-10.57	3.02	4.81	3.02	-2.19	-6.38	-10.15	-3.00	-11.20
345.00	-2.46	-3.38	-7.29	-8.58	-6.46	-0.81	2.17	1.45	-5.20	-9.29	-8.58	-2.06	-11.20

6175MHz Composite Gain (2SS)													
Freq	6175.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-5.21	-7.07	-8.41	-10.54	-6.96	1.38	2.45	-0.89	-10.27	-11.00	-15.94	-5.76	-14.19
15.00	-5.16	-7.88	-9.33	-11.07	-7.55	-0.09	1.85	1.05	-5.85	-6.14	-9.46	-6.47	-14.19
30.00	-5.18	-7.31	-8.57	-11.25	-9.88	-2.28	-1.43	-4.68	-11.71	-8.71	-9.58	-4.71	-14.19
45.00	-5.26	-6.54	-6.34	-10.44	-8.89	-5.84	-4.06	-7.46	-11.28	-13.29	-8.13	-4.73	-14.19
60.00	-5.15	-6.13	-6.32	-7.47	-11.41	-2.11	-1.52	-4.89	-8.34	-13.85	-8.37	-5.67	-14.19
75.00	-4.92	-5.99	-5.86	-6.26	-9.62	-2.79	0.43	-6.61	-5.64	-10.52	-10.37	-6.36	-14.19
90.00	-4.83	-6.04	-6.34	-5.87	-8.26	-1.16	1.62	-3.90	-3.67	-7.18	-10.34	-8.07	-14.19
105.00	-4.78	-5.85	-6.13	-5.98	-5.24	-2.91	1.26	-2.04	-5.00	-9.44	-8.57	-8.51	-14.19
120.00	-4.73	-5.76	-6.60	-7.47	-5.16	-0.15	0.87	-0.44	-2.92	-5.94	-6.66	-6.76	-14.19
135.00	-4.66	-6.06	-9.70	-9.50	-4.33	1.36	-0.23	-2.39	-6.80	-7.48	-6.76	-4.91	-14.19
150.00	-4.66	-7.27	-6.23	-10.46	-11.91	-5.80	0.05	-0.76	-3.79	-6.23	-7.49	-4.07	-14.19
165.00	-4.77	-8.16	-6.24	-6.74	-9.54	-2.92	0.67	-0.84	-6.09	-6.82	-10.77	-4.70	-14.19
180.00	-4.81	-6.80	-7.97	-7.31	-6.22	-1.27	0.24	0.36	-2.15	-5.76	-8.45	-7.81	-14.19
195.00	-4.92	-6.42	-7.39	-8.04	-9.04	-2.89	-1.63	-2.98	-6.60	-5.40	-7.48	-5.85	-14.19
210.00	-4.95	-6.63	-8.48	-7.26	-10.04	-0.49	1.13	-1.18	-10.14	-5.44	-14.84	-3.03	-14.19
225.00	-4.80	-6.53	-3.70	-5.83	-7.75	-1.91	1.05	-1.93	-7.66	-9.41	-12.41	-4.03	-14.19
240.00	-4.87	-5.59	-3.81	-8.02	-7.79	0.03	2.46	0.51	-7.06	-8.38	-14.06	-5.54	-14.19
255.00	-5.07	-4.54	-3.99	-8.59	-6.42	2.40	4.57	1.04	-3.02	-12.00	-8.98	-5.95	-14.19
270.00	-5.19	-4.38	-3.22	-6.69	-5.42	0.76	4.44	2.47	-4.10	-13.53	-7.64	-5.27	-14.19
285.00	-5.32	-4.86	-3.38	-5.57	-7.02	1.91	2.71	1.60	-5.41	-10.68	-8.21	-5.39	-14.19
300.00	-5.42	-5.72	-4.07	-6.79	-9.39	0.09	1.93	-0.68	-7.01	-10.48	-12.21	-5.56	-14.19
315.00	-5.42	-5.84	-5.67	-10.91	-8.64	-1.60	2.23	-0.57	-11.70	-16.75	-13.11	-6.07	-14.19
330.00	-5.39	-5.65	-8.15	-6.45	-12.91	0.54	2.65	0.50	-4.45	-9.08	-12.51	-5.91	-14.19
345.00	-5.22	-5.98	-10.13	-11.19	-9.35	-3.53	-0.10	-0.89	-8.07	-12.09	-11.58	-4.78	-14.19

Ant3													
Freq	6475.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-10.56	-9.54	-8.08	-19.74	-11.76	-6.75	-6.3	-4.23	-7.47	-11.77	-10.4	-7.28	-12.17
15.00	-10.26	-7.98	-8.5	-11.65	-12.56	-7.4	-6.45	-6.56	-12.62	-11.23	-9.73	-6.01	-12.17



30.00	-9.7	-6.9	-8.3	-10.25	-8.88	-3.22	-5.75	-10.45	-16.11	-16.73	-12.45	-8.67	-12.17
45.00	-9.31	-7.79	-9.44	-10.89	-8.29	-4.83	-6.07	-10.99	-9.08	-15.6	-14.71	-10.82	-12.17
60.00	-9.07	-8.81	-12.5	-12.16	-13.75	-4.64	-6.25	-8.41	-16.2	-13.33	-9.99	-7.74	-12.17
75.00	-9.31	-9.23	-9.93	-19.82	-6.29	-1.82	2.07	-7.42	-8.58	-11.14	-10.36	-7.85	-12.17
90.00	-9.33	-9.04	-5.29	-12.82	-8.7	0.16	1.61	-4.62	-17.75	-10.37	-10.64	-9.84	-12.17
105.00	-9.48	-7.9	-3.86	-10.02	-3.87	-4.72	1.03	-3.63	-14.97	-10.97	-5.97	-9.73	-12.17
120.00	-9.77	-6	-6.86	-11.02	-5.7	1.22	2.39	-0.72	-2.83	-5.06	-4.33	-7.95	-12.17
135.00	-9.74	-5.11	-18.76	-8.59	-4.28	0.38	1.35	-1.35	-4.89	-9.16	-7.57	-7.73	-12.17
150.00	-9.55	-6.09	-8.36	-10.4	-9.64	-5.77	3.13	1.88	-1.37	-1.08	-8.95	-6.78	-12.17
165.00	-9.48	-7.64	-5.2	-7.78	-4.1	-4.03	0.68	1.39	-2.57	-4.15	-10.62	-6.4	-12.17
180.00	-9.24	-8.83	-7.09	-6.66	-8.64	-0.68	0.6	-0.66	-2.15	-3.51	-4.82	-8.05	-12.17
195.00	-9.51	-7.13	-7.84	-11.85	-18.49	-5.05	0.88	-0.22	-6.58	-4.87	-4.47	-7.91	-12.17
210.00	-9.86	-6.26	-10.75	-7.19	-6.18	0.15	2.03	-0.22	-5.66	-8.03	-12.76	-6.56	-12.17
225.00	-10.06	-7.12	-7.89	-11.73	-9.13	-0.92	3.35	0.29	-6.67	-7.38	-16.8	-7.32	-12.17
240.00	-10.47	-8.67	-11.42	-8.34	-9.65	3.2	0.63	-2.31	-6.39	-8.56	-11.27	-9.26	-12.17
255.00	-10.92	-8.72	-9.24	-4.54	-5.36	2.61	5.61	2.5	-4.5	-3.77	-9.74	-9.71	-12.17
270.00	-10.45	-8.2	-8.38	-7	-5.26	2.42	5.79	3.22	-3.86	-4.03	-8.53	-10.18	-12.17
285.00	-10.29	-9.1	-8.25	-14.47	-4.09	1.3	5.95	1.66	-4	-6.7	-7.84	-8.5	-12.17
300.00	-9.78	-12.14	-12.59	-7.75	-7.28	1.54	0.96	-1.37	-10.52	-19.27	-9.1	-8.67	-12.17
315.00	-9.6	-13.38	-9.46	-9.65	-11.73	-5.56	-2.65	-5.97	-10.32	-12.06	-13.93	-7.87	-12.17
330.00	-9.88	-9.67	-10.48	-7.44	-10.68	-3.56	-2.67	-4.73	-9.19	-13.45	-15.59	-9.31	-12.17
345.00	-10.69	-8.75	-7.05	-7.5	-9.43	-6.23	-4.75	-5.58	-10.27	-20.4	-14.22	-12.17	-12.17

Ant6													
Freq	6475.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-9.26	-14.57	-16.25	-8.36	-2.52	1.58	1.3	-4.4	-8.7	-10.85	-13.46	-4.28	-13.71
15.00	-9.06	-12.75	-11.13	-10.41	-4.89	0.47	1.85	-0.34	-4.25	-5.96	-14.9	-5.56	-13.71
30.00	-9.04	-9.31	-10.04	-14.29	-11.62	-3.97	-0.17	-5.78	-6.3	-6.78	-10.07	-13.71	-13.71
45.00	-9.3	-7.9	-11.32	-9.09	-9.8	-6.39	-2.36	-6.99	-11.8	-11.02	-8.3	-9.38	-13.71
60.00	-9.41	-7.94	-6.57	-7.31	-11.78	-1.69	1.54	-2.84	-10.03	-9.26	-6.06	-11.24	-13.71
75.00	-9.47	-7.83	-6.64	-6.84	-10.49	-4	-2.52	-7.69	-10.7	-9.92	-8.5	-8.71	-13.71
90.00	-9.44	-8.19	-8.99	-7.47	-10.38	-2.33	3.47	-7.73	-4.16	-16.4	-8.39	-5.57	-13.71
105.00	-9.9	-8.73	-9.02	-11.68	-10.33	-2.45	0.47	-8.8	-4.48	-17.11	-9.24	-4.83	-13.71
120.00	-10.55	-8.53	-8.37	-15.27	-7.99	-0.28	2.29	-1.83	-5.64	-9.16	-5.25	-5.94	-13.71
135.00	-11.16	-8.13	-8.07	-9.01	-9.06	-0.3	-2.21	-3.44	-10.89	-14.39	-6.05	-10.1	-13.71
150.00	-11.3	-7.73	-6.8	-7.27	-8.42	-12.89	-10.22	-10.92	-16.7	-12.9	-8.43	-12.85	-13.71
165.00	-11.15	-7.9	-7.96	-10.43	-10.89	-4.14	-3.87	-4.66	-11.94	-12.97	-16.52	-11.56	-13.71
180.00	-11.19	-10.85	-7.32	-8.58	-5.08	0.27	0.76	-2.64	-10.33	-12.91	-15.93	-10.34	-13.71
195.00	-11.13	-17.84	-16.76	-7.66	-13.91	-4.01	-3.22	-6.36	-15.29	-11.51	-11.28	-10.56	-13.71
210.00	-11.46	-10.17	-6.35	-5.78	-13.88	-4.34	-2.35	-2.33	-9.55	-10.34	-13.23	-11.59	-13.71
225.00	-11.27	-6.38	-5.19	-11.84	-9.2	-1.83	-0.88	-2.86	-8.46	-10.5	-17.4	-9.68	-13.71
240.00	-11.22	-6.01	-4.67	-11.99	-11.14	0.12	4.54	1.09	-5.52	-11.1	-9.52	-10.17	-13.71



255.00	-11.13	-6.18	-4.98	-5.42	-13.57	3.74	4.5	3.66	-2.13	-8.64	-6.89	-8.89	-13.71
270.00	-10.93	-5.96	-5.85	-5.13	-14.16	-1.34	3.03	3.52	-6.39	-10.62	-10.78	-6.06	-13.71
285.00	-10.05	-5.67	-5.09	-5.91	-22.26	-0.36	3.29	1.41	-6.11	-8.19	-10.43	-4.4	-13.71
300.00	-9.65	-5.76	-4.86	-7.76	-5.35	-2.29	3.53	1.12	-6.41	-9.1	-14.67	-5.54	-13.71
315.00	-9.37	-5.73	-7.93	-11.96	-13.33	1.59	4.24	-0.55	-16.08	-9.63	-22.13	-8.17	-13.71
330.00	-9.36	-6.69	-6.73	-12.27	-3.61	1.05	1.24	-2.23	-9.84	-16.02	-12.93	-8.77	-13.71
345.00	-9.45	-9.64	-7.35	-10.37	-8.28	-1.32	1.27	-2.32	-5.59	-4.36	-11.22	-6.31	-13.71

6475MHz Composite Gain (1SS)													
Freq	6475.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-6.88	-8.69	-8.23	-9.30	-2.95	1.39	1.32	-1.30	-5.05	-8.29	-8.79	-2.64	-9.90
15.00	-6.63	-7.03	-6.71	-8.00	-4.89	0.41	1.67	0.11	-4.45	-5.19	-8.93	-2.77	-9.90
30.00	-6.35	-5.01	-6.12	-9.03	-7.13	-0.58	0.49	-4.79	-6.88	-7.39	-8.17	-7.82	-9.90
45.00	-6.29	-4.83	-7.32	-6.93	-6.00	-2.56	-1.01	-5.75	-7.32	-10.00	-7.92	-7.06	-9.90
60.00	-6.23	-5.35	-6.03	-6.39	-9.70	-0.03	1.50	-2.18	-9.57	-8.05	-4.79	-6.30	-9.90
75.00	-6.38	-5.49	-5.12	-8.09	-5.13	0.17	3.09	-4.54	-6.57	-7.50	-6.37	-5.26	-9.90
90.00	-6.37	-5.59	-3.93	-6.73	-6.49	2.01	5.60	-3.03	-5.52	-9.86	-6.43	-4.43	-9.90
105.00	-6.68	-5.29	-3.05	-7.80	-3.50	-0.50	3.76	-2.83	-5.22	-10.50	-4.44	-3.93	-9.90
120.00	-7.14	-4.16	-4.57	-9.88	-3.76	3.51	5.35	1.75	-1.11	-3.86	-1.77	-3.88	-9.90
135.00	-7.41	-3.48	-8.85	-5.79	-3.33	3.06	2.76	0.68	-4.37	-8.38	-3.77	-5.82	-9.90
150.00	-7.37	-3.86	-4.53	-5.68	-6.00	-5.61	1.81	0.66	-3.01	-2.11	-5.68	-6.28	-9.90
165.00	-7.26	-4.76	-3.46	-5.99	-3.84	-1.07	1.71	1.89	-3.04	-4.48	-10.07	-5.59	-9.90
180.00	-7.15	-6.77	-4.19	-4.56	-3.67	2.82	3.69	1.42	-2.30	-3.99	-5.70	-6.11	-9.90
195.00	-7.27	-7.92	-8.19	-6.49	-12.89	-1.50	2.08	0.25	-6.88	-4.56	-4.21	-6.12	-9.90
210.00	-7.61	-4.99	-5.26	-3.45	-6.19	1.20	3.12	1.80	-4.38	-6.10	-9.98	-5.71	-9.90
225.00	-7.63	-3.73	-3.43	-8.77	-6.15	1.65	4.50	1.87	-4.51	-5.79	-14.08	-5.41	-9.90
240.00	-7.83	-4.23	-4.39	-6.96	-7.35	4.81	5.81	2.57	-2.93	-6.73	-7.34	-6.69	-9.90
255.00	-8.01	-4.35	-3.84	-1.96	-5.52	6.20	8.08	6.11	-0.22	-2.86	-5.19	-6.28	-9.90
270.00	-7.68	-4.00	-4.01	-3.00	-5.61	3.75	7.53	6.38	-2.02	-3.70	-6.57	-4.87	-9.90
285.00	-7.16	-4.21	-3.52	-6.17	-6.09	3.52	7.73	4.55	-1.98	-4.40	-6.03	-3.20	-9.90
300.00	-6.70	-5.37	-4.88	-4.74	-3.25	2.84	5.35	2.97	-5.21	-9.76	-8.44	-3.95	-9.90
315.00	-6.47	-5.73	-5.65	-7.72	-9.48	1.74	4.47	0.17	-9.72	-7.75	-14.09	-5.01	-9.90
330.00	-6.61	-5.04	-5.39	-6.51	-3.43	2.06	2.51	-0.38	-6.50	-11.63	-11.15	-6.03	-9.90
345.00	-7.04	-6.17	-4.19	-5.81	-5.83	-0.42	1.78	-0.79	-4.61	-6.10	-9.58	-5.74	-9.90

6475MHz Composite Gain (2SS)													
Freq	6475.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-9.86	-11.36	-10.47	-11.07	-5.04	-0.84	-1.01	-4.31	-8.04	-11.29	-11.67	-5.53	-12.87
15.00	-9.62	-9.74	-9.62	-10.99	-7.21	-1.88	-0.56	-2.42	-6.67	-7.84	-11.59	-5.78	-12.87
30.00	-9.36	-7.94	-9.08	-11.82	-10.04	-3.58	-2.12	-7.52	-8.88	-9.37	-11.10	-10.50	-12.87
45.00	-9.30	-7.84	-10.28	-9.90	-8.98	-5.54	-3.83	-8.54	-10.23	-12.73	-10.42	-10.04	-12.87



60.00	-9.24	-8.35	-8.59	-9.09	-12.65	-2.92	-0.80	-4.79	-12.10	-10.83	-7.59	-9.15	-12.87
75.00	-9.39	-8.47	-7.98	-9.64	-7.90	-2.77	0.36	-7.55	-9.51	-10.49	-9.33	-8.26	-12.87
90.00	-9.38	-8.59	-6.76	-9.37	-9.46	-0.91	2.64	-5.90	-6.98	-12.41	-9.37	-7.20	-12.87
105.00	-9.68	-8.30	-5.71	-10.77	-6.00	-3.44	0.76	-5.49	-7.12	-13.03	-7.30	-6.62	-12.87
120.00	-10.14	-7.08	-7.55	-12.64	-6.70	0.53	2.34	-1.24	-4.01	-6.64	-4.77	-6.83	-12.87
135.00	-10.39	-6.36	-10.72	-8.79	-6.04	0.05	-0.08	-2.27	-6.93	-11.03	-6.74	-8.76	-12.87
150.00	-10.34	-6.83	-7.51	-8.56	-8.99	-8.01	0.32	-0.91	-4.25	-3.81	-8.68	-8.83	-12.87
165.00	-10.24	-7.77	-6.36	-8.91	-6.28	-4.08	-1.02	-0.66	-5.11	-6.62	-12.64	-8.25	-12.87
180.00	-10.11	-9.72	-7.20	-7.51	-6.51	-0.18	0.68	-1.54	-4.55	-6.05	-7.51	-9.05	-12.87
195.00	-10.24	-9.79	-10.33	-9.27	-15.62	-4.50	-0.70	-2.28	-9.04	-7.03	-6.66	-9.04	-12.87
210.00	-10.59	-7.79	-8.02	-6.43	-8.51	-1.54	0.37	-1.15	-7.18	-9.03	-12.99	-8.38	-12.87
225.00	-10.62	-6.73	-6.33	-11.78	-9.16	-1.35	1.73	-1.01	-7.47	-8.67	-17.09	-8.34	-12.87
240.00	-10.83	-7.14	-6.85	-9.79	-10.33	1.93	3.01	-0.29	-5.93	-9.65	-10.31	-9.69	-12.87
255.00	-11.02	-7.27	-6.61	-4.96	-7.76	3.21	5.09	3.12	-3.16	-5.56	-8.09	-9.28	-12.87
270.00	-10.68	-6.94	-6.93	-5.97	-7.74	0.93	4.63	3.37	-4.94	-6.18	-9.51	-7.65	-12.87
285.00	-10.17	-7.05	-6.39	-8.35	-7.03	0.55	4.82	1.54	-4.93	-7.38	-8.94	-5.98	-12.87
300.00	-9.71	-7.87	-7.19	-7.75	-6.21	0.03	2.43	0.05	-8.00	-11.71	-11.05	-6.83	-12.87
315.00	-9.48	-8.05	-8.63	-10.65	-12.46	-0.65	2.04	-2.46	-12.31	-10.68	-16.33	-8.02	-12.87
330.00	-9.61	-7.93	-8.21	-9.22	-5.84	-0.67	-0.29	-3.30	-9.50	-14.55	-14.06	-9.03	-12.87
345.00	-10.03	-9.17	-7.20	-8.70	-8.82	-3.12	-0.77	-3.65	-7.33	-7.26	-12.47	-8.32	-12.87

Ant3													
Freq	6725.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-6.47	-10.69	-9.71	-11.44	-6.32	-1.44	-2.42	-4.64	-8.52	-6.59	-10.59	-9.7	-19.28
15.00	-6.48	-13.23	-10.3	-14.59	-10.94	-6.23	-3.64	-5.69	-7.48	-18.55	-6.19	-6.75	-19.28
30.00	-6.37	-10.87	-10.69	-9.32	-9.98	-1.94	-2.71	-8.83	-10.8	-11.87	-10.2	-7.07	-19.28
45.00	-5.93	-7.16	-7.72	-9.54	-7.36	-2.47	-4.48	-10.77	-12.51	-10.55	-12.38	-9.08	-19.28
60.00	-5.57	-5.07	-8.68	-13.17	-18.89	-8.14	-12.2	-8.95	-17.66	-16.11	-7.43	-6.45	-19.28
75.00	-5.56	-4.12	-9.57	-12.54	-5.48	-0.82	1.6	-9.14	-9.02	-10.74	-9.13	-5.85	-19.28
90.00	-5.63	-3.8	-8.75	-10.05	-6.08	1.29	1.45	-5.79	-17.22	-20.86	-9.5	-8.83	-19.28
105.00	-5.81	-3.97	-8.29	-8.21	-2.21	-8.24	-0.61	-2.56	-9.74	-9.21	-4.51	-8.52	-19.28
120.00	-5.76	-4.52	-15.5	-10.24	-3.36	3.51	3.47	-1.54	-2.99	-5.17	-3.72	-7.22	-19.28
135.00	-5.63	-5.13	-7.69	-9.83	-5.99	-0.58	2.77	-1.17	-4.46	-8.05	-11.7	-7.05	-19.28
150.00	-5.33	-6.25	-4.23	-5.69	-3.2	-1.68	2.05	1.72	-1.91	-1.86	-5.46	-7.74	-19.28
165.00	-5.5	-8.68	-7.18	-6.44	-5.12	-2.33	0.06	1.34	-4.4	-6.19	-3.3	-8.57	-19.28
180.00	-5.57	-8.76	-13.61	-15.17	-9.52	-1	1.51	-0.47	-6.08	-7.87	-3.89	-8.89	-19.28
195.00	-5.83	-7.93	-12.31	-16.17	-9.77	-4.79	1.96	1.41	-5.25	-10.76	-5.14	-6.71	-19.28
210.00	-5.94	-9.19	-16.44	-8.84	-6.54	-1.56	1.92	-1.68	-4.94	-8.01	-9.38	-5.65	-19.28
225.00	-6.16	-12.46	-19.16	-11.82	-9.65	-0.45	3.05	1.03	-7.15	-7.63	-11.38	-5.35	-19.28
240.00	-6.15	-13.09	-9.94	-5.14	-4.79	-0.08	1.41	-1.32	-12.12	-7.68	-11.72	-6.83	-19.28
255.00	-6.24	-12.78	-7.75	-3.52	-2.56	1.65	2.95	0.06	-7.21	-4.98	-13.37	-7.88	-19.28
270.00	-6.4	-12.85	-8.06	-5.97	-7.72	4.77	6.32	3.7	-4.17	-5	-9.36	-7.09	-19.28

285.00	-6.5	-11.9	-9.31	-8.51	-5.94	2.06	5.7	2.37	-2.43	-2.94	-10.04	-5.23	-19.28
300.00	-6.57	-11.23	-8.97	-15.43	-9.52	-0.28	2.67	-0.2	-9.85	-8.57	-8.6	-5.76	-19.28
315.00	-6.51	-11.61	-11.48	-7.02	-10.11	-2.4	-2.59	-6.07	-13.3	-14.72	-11.66	-6.96	-19.28
330.00	-6.44	-12.39	-9.24	-9.12	-13.19	-7.59	-6.04	-4.94	-8.61	-11.92	-21.95	-8.51	-19.28
345.00	-6.3	-10.73	-10.61	-7.33	-10.31	-3.04	-2.78	-9.23	-11.95	-12.94	-15.92	-19.28	-19.28

Ant6													
Freq	6725.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-15.69	-10.03	-11.66	-6.07	-2.24	-0.54	-0.87	-2.87	-8.89	-9.36	-10.99	-4.79	-16.37
15.00	-16.58	-13.11	-10.67	-8.25	-5.16	-4.29	-0.67	0.84	-1.71	-8.45	-7.76	-2.5	-16.37
30.00	-16.6	-14.22	-8.58	-17.25	-8.13	-2.43	0.14	-0.94	-3.23	-6.16	-11.05	-4.65	-16.37
45.00	-15.63	-14.52	-9.1	-6.72	-5.64	-3.01	1.79	-3.98	-8.43	-5.05	-6.35	-9.09	-16.37
60.00	-14.78	-13.15	-9	-4.66	-10.57	-0.97	3.87	-4.03	-11.65	-7.71	-8.48	-10.91	-16.37
75.00	-13.67	-10.5	-8.16	-3.3	-12.77	-4.9	-2.36	-9.13	-8.01	-5.06	-4.6	-16.37	-16.37
90.00	-13.45	-9.56	-7.87	-9.54	-9	-4.62	2.24	-4.89	-4.29	-7.94	-3.19	-11.38	-16.37
105.00	-13.46	-10.57	-9.3	-9.06	-13.34	-2.11	-3.32	-4.89	-2.59	-7.44	-5.96	-8.54	-16.37
120.00	-13.53	-15.08	-10.55	-14.89	-5.1	-0.99	4.15	-5.35	-4.39	-1.41	-8.31	-8.73	-16.37
135.00	-13.72	-17.87	-10.8	-8.51	-5.43	0.35	-1.16	-3.47	-13.04	-8.2	-14.01	-9.49	-16.37
150.00	-14.47	-13.91	-8.19	-13.62	-8.24	-8.2	-12.37	-13.14	-11.97	-12.1	-9.85	-8.42	-16.37
165.00	-14.09	-14.48	-8.38	-10.41	-10.35	-3.21	-4.65	-4.45	-6.54	-17.42	-9.26	-7.21	-16.37
180.00	-13.79	-15.83	-10.78	-6.08	-4.14	1.23	1.11	-1.34	-10.41	-10.26	-19.98	-6.2	-16.37
195.00	-13.52	-11.04	-10.7	-11.91	-6.69	-5.24	-8.99	-5.3	-7.21	-8.75	-11.42	-8.63	-16.37
210.00	-13.14	-8.56	-5.85	-7.15	-7.3	-5.26	-3.52	-7.14	-13.71	-11.43	-10.39	-7.56	-16.37
225.00	-13.75	-9.43	-8.19	-20.73	-5.54	-6.77	-4.27	-6.87	-9.17	-15.12	-10.5	-10.87	-16.37
240.00	-14.94	-10.46	-9.84	-16.49	-6.9	3.29	1.32	-2.68	-5.27	-12.73	-4.66	-9.83	-16.37
255.00	-15.38	-10.18	-6.23	-10.42	-3.44	1.51	2.38	-1.23	-2.9	-8.04	-3.69	-8.87	-16.37
270.00	-16.29	-9.32	-4.79	-6.69	-3.26	1.73	1.95	-5.47	-3.28	-11.7	-4.83	-8.12	-16.37
285.00	-16.71	-9.33	-5.6	-10.75	-11.41	1.15	-2.33	-4.36	-7.05	-10.23	-5.5	-7.44	-16.37
300.00	-15.84	-10.13	-7.19	-10.93	-15.78	1.84	3.73	1.31	-6.75	-4.63	-9.22	-7.52	-16.37
315.00	-15.67	-9.33	-6	-9.38	-3.26	0.35	2.89	1.17	-4.03	-14.34	-17.1	-7.32	-16.37
330.00	-15.28	-7.82	-8.31	-7.27	-3.34	1.47	3.77	0.51	-7.08	-12.62	-10.58	-4.93	-16.37
345.00	-14.83	-7.66	-8.7	-7.92	-5.96	-1.91	-0.11	-0.2	-1.68	-2.1	-6.26	-4.08	-16.37

6725MHz Composite Gain (1SS)													
Freq	6725.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-6.90	-7.34	-7.62	-5.34	-1.03	2.03	1.40	-0.70	-5.69	-4.85	-7.78	-3.89	-14.69
15.00	-7.13	-10.16	-7.47	-7.84	-4.57	-2.20	0.98	1.19	-1.11	-9.10	-3.93	-1.36	-14.69
30.00	-7.05	-9.37	-6.56	-9.40	-6.00	0.83	1.84	-1.01	-3.20	-5.54	-7.60	-2.77	-14.69
45.00	-6.48	-7.07	-5.37	-5.01	-3.45	0.27	2.22	-3.72	-7.22	-4.36	-5.84	-6.07	-14.69
60.00	-6.00	-5.19	-5.83	-4.90	-10.76	-0.82	2.13	-3.14	-11.13	-7.92	-4.93	-5.39	-14.69
75.00	-5.69	-3.73	-5.83	-3.73	-5.37	0.39	2.85	-6.12	-5.49	-4.43	-3.56	-6.60	-14.69

90.00	-5.68	-3.20	-5.29	-6.78	-4.41	1.84	4.86	-2.32	-5.53	-9.18	-2.77	-7.00	-14.69
105.00	-5.81	-3.65	-5.77	-5.61	-3.09	-1.63	1.15	-0.64	-2.44	-5.27	-2.19	-5.52	-14.69
120.00	-5.79	-5.27	-9.67	-9.25	-1.18	4.56	6.83	-0.23	-0.65	-0.08	-2.70	-4.93	-14.69
135.00	-5.76	-6.34	-6.10	-6.13	-2.70	2.91	4.04	0.77	-4.72	-5.11	-9.77	-5.17	-14.69
150.00	-5.74	-6.25	-2.98	-5.77	-2.35	-1.33	0.55	0.15	-2.55	-2.54	-4.37	-5.06	-14.69
165.00	-5.76	-8.09	-4.75	-5.19	-4.34	0.25	1.03	1.93	-2.39	-7.09	-2.77	-4.85	-14.69
180.00	-5.73	-8.58	-9.07	-6.48	-3.41	3.20	4.32	2.12	-4.97	-5.97	-5.63	-4.43	-14.69
195.00	-5.84	-6.34	-8.46	-10.77	-5.08	-2.00	1.12	1.70	-3.16	-6.69	-4.71	-4.61	-14.69
210.00	-5.80	-5.86	-6.61	-4.94	-3.90	-0.20	2.63	-0.98	-5.25	-6.54	-6.86	-3.54	-14.69
225.00	-6.14	-7.80	-9.04	-12.17	-4.34	-0.04	3.15	0.96	-5.09	-7.58	-7.92	-4.67	-14.69
240.00	-6.47	-8.67	-6.88	-6.07	-2.77	4.78	4.38	1.04	-5.03	-6.83	-4.48	-5.19	-14.69
255.00	-6.65	-8.37	-3.95	-3.29	0.02	4.59	5.68	2.45	-1.78	-3.37	-4.24	-5.35	-14.69
270.00	-7.00	-7.90	-3.26	-3.31	-2.20	6.39	7.42	3.28	-0.70	-4.71	-3.79	-4.58	-14.69
285.00	-7.17	-7.51	-4.25	-6.55	-5.24	4.63	5.59	2.65	-1.43	-2.83	-4.47	-3.25	-14.69
300.00	-7.01	-7.65	-5.02	-9.88	-9.09	3.85	6.23	3.60	-5.15	-3.37	-5.89	-3.59	-14.69
315.00	-6.92	-7.39	-5.30	-5.11	-3.02	2.09	3.59	1.29	-4.47	-11.52	-10.95	-4.13	-14.69
330.00	-6.77	-6.80	-5.75	-5.14	-3.93	1.08	3.19	1.22	-4.80	-9.25	-11.51	-3.53	-14.69
345.00	-6.55	-6.05	-6.59	-4.61	-4.86	0.55	1.67	-0.58	-2.37	-2.92	-6.80	-5.70	-14.69

6725MHz Composite Gain (2SS)													
Freq	6725.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-8.99	-10.35	-10.58	-7.97	-3.82	-0.97	-1.58	-3.67	-8.70	-7.76	-10.79	-6.59	-17.59
15.00	-9.09	-13.17	-10.48	-10.35	-7.15	-5.15	-1.91	-1.30	-3.70	-11.06	-6.90	-4.12	-17.59
30.00	-8.99	-12.23	-9.51	-11.68	-8.96	-2.18	-1.06	-3.30	-5.54	-8.14	-10.60	-5.69	-17.59
45.00	-8.50	-9.44	-8.36	-7.91	-6.42	-2.73	-0.30	-6.16	-10.01	-6.98	-8.39	-9.08	-17.59
60.00	-8.09	-7.45	-8.84	-7.10	-12.98	-3.22	0.97	-5.83	-13.69	-10.13	-7.92	-8.13	-17.59
75.00	-7.95	-6.23	-8.81	-5.82	-7.75	-2.40	0.06	-9.13	-8.49	-7.03	-6.30	-8.49	-17.59
90.00	-7.98	-5.79	-8.29	-9.79	-7.30	-0.73	1.86	-5.32	-7.08	-10.73	-5.29	-9.92	-17.59
105.00	-8.13	-6.12	-8.77	-8.61	-4.90	-4.17	-1.76	-3.57	-4.83	-8.24	-5.17	-8.53	-17.59
120.00	-8.10	-7.16	-12.35	-11.97	-4.14	1.82	3.82	-3.04	-3.63	-2.90	-5.43	-7.91	-17.59
135.00	-8.01	-7.92	-8.97	-9.12	-5.70	-0.09	1.24	-2.17	-6.91	-8.12	-12.70	-8.10	-17.59
150.00	-7.84	-8.57	-5.77	-8.05	-5.03	-3.82	-0.81	-1.15	-4.51	-4.48	-7.12	-8.07	-17.59
165.00	-7.95	-10.68	-7.74	-7.99	-6.99	-2.75	-1.69	-0.65	-5.34	-8.88	-5.33	-7.84	-17.59
180.00	-7.97	-10.99	-11.97	-8.59	-6.05	0.26	1.31	-0.88	-7.73	-8.90	-6.79	-7.34	-17.59
195.00	-8.16	-9.21	-11.43	-13.54	-7.96	-5.01	-0.71	-0.76	-6.12	-9.64	-7.23	-7.56	-17.59
210.00	-8.19	-8.86	-8.50	-7.91	-6.90	-3.03	0.00	-3.60	-7.41	-9.39	-9.86	-6.50	-17.59
225.00	-8.47	-10.69	-10.87	-14.31	-7.13	-2.55	0.78	-1.33	-8.04	-9.93	-10.92	-7.29	-17.59
240.00	-8.62	-11.58	-9.89	-7.84	-5.72	1.92	1.37	-1.95	-7.46	-9.51	-6.89	-8.08	-17.59
255.00	-8.75	-11.29	-6.92	-5.72	-2.98	1.58	2.67	-0.54	-4.54	-6.25	-6.26	-8.35	-17.59
270.00	-8.99	-10.74	-6.12	-6.32	-4.94	3.51	4.66	1.19	-3.70	-7.17	-6.53	-7.57	-17.59
285.00	-9.12	-10.43	-7.07	-9.49	-7.87	1.63	3.32	0.20	-4.15	-5.21	-7.20	-6.20	-17.59
300.00	-9.09	-10.65	-7.99	-12.62	-11.61	0.91	3.23	0.62	-8.03	-6.17	-8.90	-6.55	-17.59



315.00	-9.02	-10.32	-7.93	-8.04	-5.45	-0.81	0.96	-1.09	-6.55	-14.53	-13.58	-7.14	-17.59
330.00	-8.92	-9.53	-8.75	-8.10	-5.92	-1.03	1.19	-1.41	-7.78	-12.26	-13.28	-6.36	-17.59
345.00	-8.74	-8.93	-9.55	-7.61	-7.61	-2.44	-1.24	-2.70	-4.30	-4.77	-8.82	-6.96	-17.59

Ant3													
Freq	7025.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-5.95	-9.08	-9.22	-11.1	-5.59	-3.22	-5.17	-7.26	-13.82	-8.75	-13.55	-12.81	-12.81
15.00	-5.93	-10.13	-11.05	-28.61	-11.92	-5.17	-2.23	-5.76	-7.93	-14.5	-12.41	-8.86	-12.81
30.00	-5.68	-12.99	-9.85	-8.64	-9.88	-2.21	-5.05	-13.65	-12.65	-14.4	-12.02	-9.05	-12.81
45.00	-5.55	-12.04	-11.26	-8.49	-7.29	-4.62	-7.23	-9.66	-11.87	-10.68	-13.98	-10.94	-12.81
60.00	-5.81	-8.19	-7.45	-12	-9.04	-7.76	-11.37	-6.76	-13.46	-19.69	-7.66	-11.76	-12.81
75.00	-6.13	-5.97	-4	-6.64	-8.66	-0.11	-0.01	-10.36	-8.77	-7.56	-8.63	-11.04	-12.81
90.00	-6.14	-5.32	-4.26	-6.86	-5.94	0.73	-1.63	-7.38	-13.56	-12.05	-9.49	-11.6	-12.81
105.00	-6.15	-5.32	-7.27	-6.56	-3.59	-3.81	-4.93	-4.99	-5.1	-4.23	-3.31	-10.17	-12.81
120.00	-5.95	-5.32	-9.17	-14.99	-5.32	3.1	2.91	-4.52	-4.65	-4.86	-5.74	-8.04	-12.81
135.00	-5.97	-6.15	-9.73	-14.62	-8.83	0.09	1.88	-4.18	-2.55	-5.29	-9.29	-6.17	-12.81
150.00	-6.07	-9.4	-6.14	-6.4	-0.11	0.42	2.12	0.16	-4.08	-3.23	-6.31	-6.36	-12.81
165.00	-6.19	-10.52	-10.3	-7.3	-2.57	-3.5	-5.19	-1.49	-7.09	-6.54	-5.14	-9.46	-12.81
180.00	-6.1	-8.13	-7.81	-13.45	-2.87	-0.96	-2.55	-5.54	-8.74	-8.66	-2.81	-5.37	-12.81
195.00	-6.07	-8.52	-17.03	-12.8	-9.83	-1.13	0.44	-3.97	-9.92	-6.19	-11	-2.82	-12.81
210.00	-5.96	-12.53	-12.58	-11.25	-6.34	-2.65	1.62	-3.68	-10.33	-6.97	-4	-3.81	-12.81
225.00	-6.07	-14.69	-11.34	-10.37	-6.15	-0.42	0.89	-2.57	-16.12	-9.57	-5.85	-7.05	-12.81
240.00	-5.96	-11.98	-12.66	-5.86	-2.54	0.21	3.02	-3.54	-9.74	-5.32	-8.57	-8.94	-12.81
255.00	-5.86	-11.06	-16.12	-9.36	-5.78	3.4	4.08	-3.58	-9.57	-4.09	-8.05	-8.2	-12.81
270.00	-5.91	-10.89	-16.69	-12.56	-4.91	4.77	4.79	-1.99	-8.74	-5.34	-12.6	-7.8	-12.81
285.00	-5.85	-10.86	-15.5	-16.71	-5.35	4.49	4.17	-0.58	-8.7	-3.54	-10.59	-8.36	-12.81
300.00	-5.69	-11.66	-12.89	-14.54	-6.23	1.85	2.1	-3.03	-11.66	-11.38	-13.66	-8.88	-12.81
315.00	-5.64	-11.56	-10.31	-14.7	-11.55	-2.3	-3.84	-13.46	-11.07	-7.34	-15.41	-8.55	-12.81
330.00	-5.7	-12.9	-7.99	-9.19	-12.89	-7.37	-5.76	-7.22	-9.47	-18.3	-16.02	-7.26	-12.81
345.00	-5.8	-11.76	-9.29	-10.71	-11.93	-3.04	-6.26	-10.89	-12.55	-12.69	-16.99	-9.58	-12.81

Ant6													
Freq	7025.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-15.36	-12.64	-17.21	-5.28	-3.97	-5.33	-2.34	-6.51	-8.89	-6.9	-6.75	-4.23	-13.83
15.00	-15.13	-11.51	-14.27	-19.28	-9.98	-6.13	-3.84	-4.32	-7.62	-8.83	-10.86	-6.89	-13.83
30.00	-15.32	-15.42	-9.4	-10.41	-6.18	-4.18	-1.84	-2.37	-6.32	-0.92	-14.87	-5.6	-13.83
45.00	-15.54	-10.56	-9.02	-9.2	-1.21	1.83	0.91	-5.69	-7.73	-5.15	-5.96	-6.84	-13.83
60.00	-16.39	-9.42	-9.84	-4.5	-7.75	1.62	1.82	-4.62	-11.62	-5.07	-6.02	-4.71	-13.83
75.00	-17.09	-10.51	-6.09	-6.93	-16.28	-2.72	-5.38	-4.7	-9.87	-3.64	-7.66	-6.41	-13.83
90.00	-16.1	-12.12	-8.35	-6.89	-17.33	-7.94	-3.09	-0.76	-7.57	-3.61	-5.02	-13.35	-13.83
105.00	-15.18	-12.94	-11.09	-11.97	-9.18	-2.2	-5.76	-3.92	-3.82	-5.16	-5.68	-13.83	-13.83

120.00	-15.64	-11.62	-10.68	-6.14	-9.29	0.67	2.9	-2.8	-5.32	-1.77	-7.17	-11.76	-13.83
135.00	-15.27	-8.78	-6.83	-6.57	-3.67	-0.61	-2.05	-2.34	-10.95	-11.36	-14.97	-9.02	-13.83
150.00	-15.5	-7.79	-9.47	-5.69	-7.94	-11.69	-13.81	-13.01	-9.67	-8	-15.13	-7.19	-13.83
165.00	-16.08	-9.35	-7.45	-22.29	-10.1	-9.63	-8.96	-6.18	-9.58	-11.18	-10.9	-8.26	-13.83
180.00	-15.4	-12.68	-12.44	-8.83	-5.08	-2.23	-1.29	-3.2	-11.06	-8.81	-11.84	-7.78	-13.83
195.00	-15.63	-10.33	-6.96	-3.3	-7.56	-9.28	-2.94	-4.09	-10.81	-9.36	-9.78	-9.33	-13.83
210.00	-16.52	-7.79	-9.16	-12.78	-6.83	-3.41	-2.59	-6.04	-10.74	-16.15	-10.42	-9.02	-13.83
225.00	-16.39	-7.35	-11.9	-10.01	-5.58	-3.69	-2.07	-6.01	-11.43	-8.7	-15.54	-7.33	-13.83
240.00	-15.83	-6.65	-8.88	-4.87	-5.64	-2.24	-0.56	-0.24	-5	-8.58	-8.49	-6.68	-13.83
255.00	-15.44	-5.93	-8.21	-1.96	-6.34	2.02	1.65	2.95	-5.02	-6.52	-8.82	-6.24	-13.83
270.00	-14.77	-5.75	-10.39	-6.69	-13.92	-0.92	-2.21	-2.48	-6.85	-8.59	-9.09	-5.79	-13.83
285.00	-15.57	-5.2	-10.04	-7.92	-10.55	-0.69	2.1	-1.05	-14.93	-10.73	-7.09	-6.81	-13.83
300.00	-16.14	-5.46	-6.81	-7.28	-8.41	0.82	2.41	0.12	-11.98	-6.44	-8.19	-8.23	-13.83
315.00	-16.74	-6.71	-5.92	-14.57	-8.53	-0.89	3.14	1.36	-7.18	-8.75	-10.08	-5.92	-13.83
330.00	-16.79	-10.54	-5.27	-12.52	-9.06	3.26	3.71	0.83	-12.1	-12.21	-11.65	-4.69	-13.83
345.00	-16.3	-20.59	-7.95	-2.97	-11.61	-1.83	-1.11	-1.29	-6.35	-5.15	-4.67	-3.02	-13.83

7025MHz Composite Gain (1SS)													
Freq	7025.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-6.43	-7.67	-9.32	-4.70	-1.73	-1.20	-0.63	-3.87	-8.00	-4.77	-6.49	-4.49	-10.29
15.00	-6.35	-7.78	-9.50	-19.74	-7.89	-2.63	0.01	-2.00	-4.76	-8.20	-8.59	-4.81	-10.29
30.00	-6.22	-11.11	-6.61	-6.47	-4.82	-0.13	-0.29	-3.28	-5.91	-2.26	-10.32	-4.14	-10.29
45.00	-6.17	-8.26	-7.06	-5.83	-0.72	2.20	0.77	-4.44	-6.55	-4.47	-6.07	-5.64	-10.29
60.00	-6.57	-5.77	-5.55	-4.45	-5.36	1.15	0.53	-2.61	-9.48	-6.60	-3.79	-4.53	-10.29
75.00	-6.97	-4.94	-1.97	-3.77	-8.65	1.69	0.72	-4.07	-6.29	-2.37	-5.12	-5.41	-10.29
90.00	-6.75	-5.06	-3.06	-3.86	-6.88	0.44	0.68	-0.44	-7.05	-3.83	-3.96	-9.42	-10.29
105.00	-6.53	-5.31	-5.96	-5.84	-2.93	0.04	-2.32	-1.43	-1.43	-1.67	-1.40	-8.80	-10.29
120.00	-6.50	-4.90	-6.88	-6.47	-4.07	4.98	5.92	-0.61	-1.97	-0.17	-3.42	-6.69	-10.29
135.00	-6.42	-4.36	-5.15	-6.68	-2.86	2.76	3.15	-0.20	-2.76	-4.79	-8.66	-4.47	-10.29
150.00	-6.55	-5.55	-4.64	-3.03	-0.16	-0.67	0.40	-1.13	-3.42	-2.28	-6.64	-3.75	-10.29
165.00	-6.79	-6.91	-5.75	-8.89	-2.53	-3.02	-3.86	-0.51	-5.24	-5.54	-4.54	-5.83	-10.29
180.00	-6.55	-7.10	-6.81	-7.83	-0.89	1.44	1.11	-1.28	-6.81	-5.72	-3.19	-3.48	-10.29
195.00	-6.59	-6.37	-7.60	-3.80	-5.61	-1.27	1.92	-1.02	-7.34	-4.62	-7.36	-2.47	-10.29
210.00	-6.71	-6.83	-7.69	-8.97	-3.57	-0.01	2.78	-1.77	-7.52	-7.39	-3.62	-3.02	-10.29
225.00	-6.77	-7.26	-8.61	-7.18	-2.85	1.11	2.55	-1.11	-10.45	-6.11	-6.40	-4.18	-10.29
240.00	-6.55	-5.90	-7.56	-2.34	-0.94	2.08	4.42	1.28	-4.04	-3.79	-5.52	-4.73	-10.29
255.00	-6.38	-5.11	-8.28	-1.88	-3.05	5.75	5.96	3.30	-3.99	-2.21	-5.42	-4.15	-10.29
270.00	-6.25	-4.93	-9.97	-6.13	-5.29	5.39	4.99	0.78	-4.73	-3.80	-7.66	-3.73	-10.29
285.00	-6.41	-4.57	-9.34	-8.24	-4.56	5.29	6.21	2.20	-8.26	-3.40	-5.65	-4.54	-10.29
300.00	-6.42	-5.01	-6.32	-7.16	-4.24	4.36	5.27	1.70	-8.81	-5.55	-7.49	-5.54	-10.29
315.00	-6.52	-5.79	-4.83	-11.62	-6.90	1.44	3.34	-0.20	-5.90	-5.01	-9.33	-4.13	-10.29
330.00	-6.57	-8.63	-3.51	-7.69	-7.76	2.49	3.22	0.72	-7.68	-11.72	-10.55	-2.87	-10.29

345.00	-6.54	-12.09	-5.58	-2.99	-8.76	0.60	-0.30	-1.82	-5.90	-5.12	-5.80	-2.68	-10.29
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7025MHz Composite Gain (2SS)													
Freq	7025.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-8.49	-10.51	-11.59	-7.28	-4.70	-4.15	-3.53	-6.87	-10.69	-7.73	-8.94	-6.68	-13.29
15.00	-8.45	-10.77	-12.37	-21.81	-10.84	-5.62	-2.96	-4.98	-7.77	-10.80	-11.57	-7.76	-13.29
30.00	-8.24	-14.04	-9.62	-9.44	-7.65	-3.08	-3.15	-5.07	-8.42	-3.74	-13.22	-6.99	-13.29
45.00	-8.15	-11.24	-10.00	-8.83	-3.26	-0.29	-1.48	-7.24	-9.32	-7.09	-8.33	-8.42	-13.29
60.00	-8.46	-8.76	-8.48	-6.80	-8.35	-0.92	-0.99	-5.56	-12.44	-7.93	-6.76	-6.94	-13.29
75.00	-8.81	-7.67	-4.92	-6.78	-10.98	-1.22	-1.91	-6.67	-9.29	-5.17	-8.12	-8.14	-13.29
90.00	-8.73	-7.51	-5.84	-6.87	-8.65	-1.73	-2.30	-2.91	-9.61	-6.04	-6.70	-12.39	-13.29
105.00	-8.65	-7.64	-8.77	-8.47	-5.54	-2.93	-5.33	-4.42	-4.41	-4.67	-4.34	-11.63	-13.29
120.00	-8.52	-7.42	-9.86	-8.62	-6.87	2.05	2.91	-3.58	-4.97	-3.05	-6.40	-9.51	-13.29
135.00	-8.50	-7.27	-8.04	-8.95	-5.52	-0.25	0.35	-3.16	-4.97	-7.34	-11.26	-7.37	-13.29
150.00	-8.61	-8.52	-7.49	-6.03	-2.46	-2.33	-0.78	-2.65	-6.03	-4.99	-8.78	-6.76	-13.29
165.00	-8.78	-9.90	-8.65	-10.17	-4.87	-5.56	-6.68	-3.23	-8.16	-8.27	-7.13	-8.82	-13.29
180.00	-8.63	-9.83	-9.54	-10.55	-3.84	-1.55	-1.87	-4.21	-9.75	-8.73	-5.31	-6.41	-13.29
195.00	-8.62	-9.33	-9.56	-5.85	-8.55	-3.52	-0.93	-4.03	-10.34	-7.49	-10.35	-4.95	-13.29
210.00	-8.60	-9.54	-10.54	-11.95	-6.58	-3.01	0.01	-4.70	-10.53	-9.49	-6.12	-5.68	-13.29
225.00	-8.69	-9.62	-11.61	-10.19	-5.86	-1.75	-0.34	-3.96	-13.17	-9.11	-8.42	-7.19	-13.29
240.00	-8.54	-8.54	-10.37	-5.34	-3.82	-0.84	1.59	-1.58	-6.75	-6.65	-8.53	-7.66	-13.29
255.00	-8.42	-7.78	-10.57	-4.24	-6.05	2.76	3.03	0.81	-6.72	-5.14	-8.42	-7.11	-13.29
270.00	-8.39	-7.60	-12.49	-8.70	-7.41	2.80	2.57	-2.23	-7.69	-6.67	-10.50	-6.68	-13.29
285.00	-8.42	-7.17	-11.96	-10.39	-7.21	2.63	3.26	-0.81	-10.78	-5.79	-8.50	-7.52	-13.29
300.00	-8.33	-7.54	-8.86	-9.54	-7.18	1.37	2.26	-1.18	-11.82	-8.24	-10.12	-8.54	-13.29
315.00	-8.33	-8.49	-7.58	-14.63	-9.78	-1.54	0.92	-1.51	-8.70	-7.99	-11.97	-7.04	-13.29
330.00	-8.38	-11.56	-6.42	-10.54	-10.57	0.61	1.16	-1.55	-10.59	-14.26	-13.31	-5.79	-13.29
345.00	-8.44	-14.24	-8.57	-5.30	-11.77	-2.39	-2.96	-3.85	-8.43	-7.46	-7.43	-5.16	-13.29