

FCC Composite Gain Test Report

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Basic Information

EUT Description:	BE9700 Tri-Band Wi-Fi 7 Router		
Brand Name:	tp-link		
Model Name:	Archer BE9700		
Tested By:	Yu Sunli Yu. Sunli	Date:	2024/12/24

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1 Operation Mode and Antenna Information

1.1 EUT Operation Mode

The Archer BE9700 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:

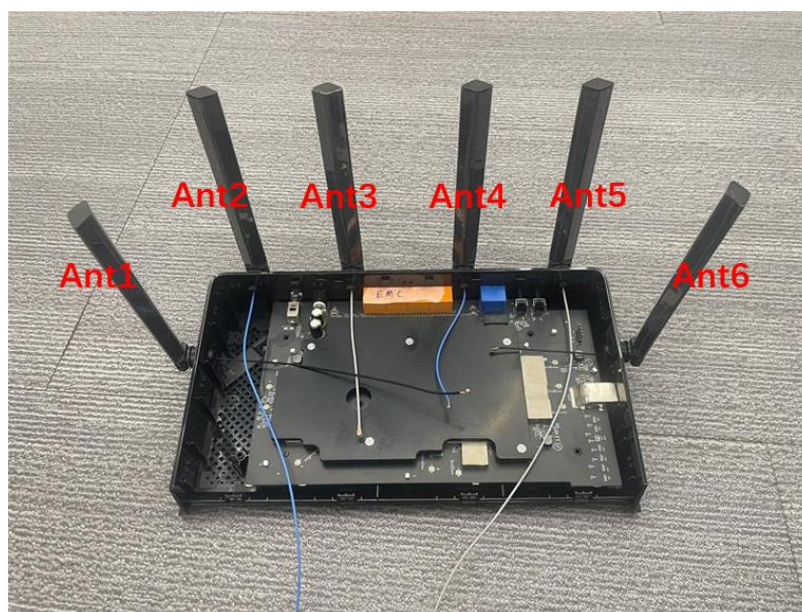


Figure 1-1 Locations of Antennas

The Antenna Information was shown below:

Table 1-1 Antenna Information

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

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.

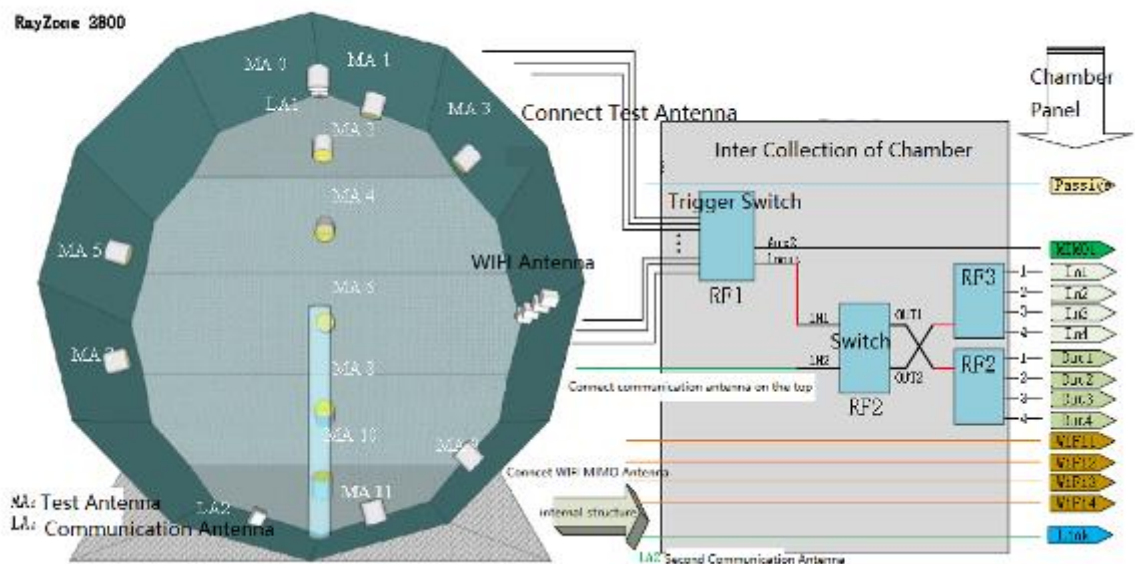


Figure 3-1 Schematic diagram of antenna near-field measurement system

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.

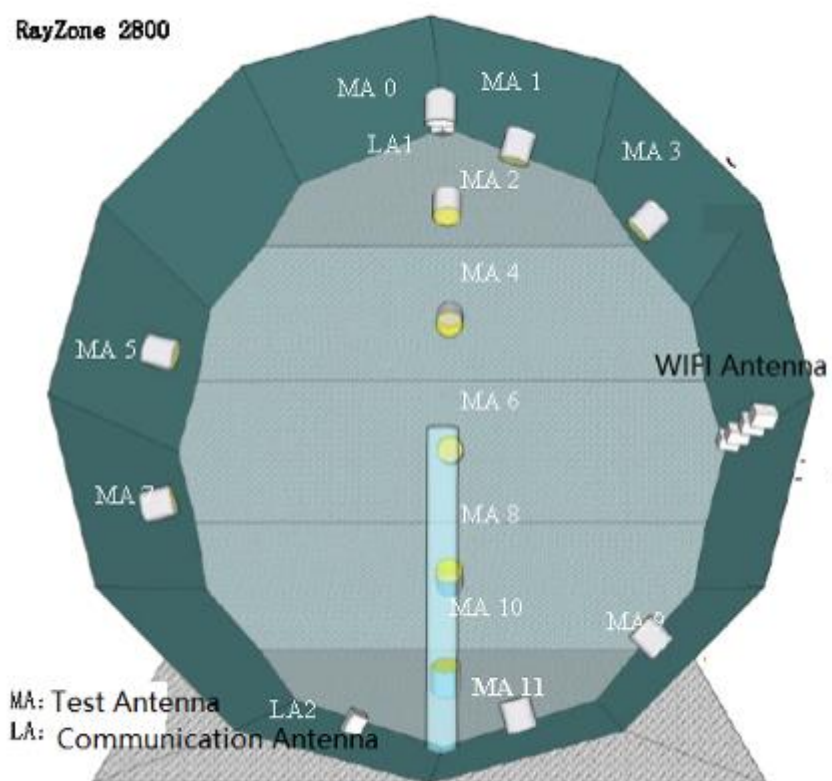


Figure 3-2 Antenna anechoic chamber for near-field measurement

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.

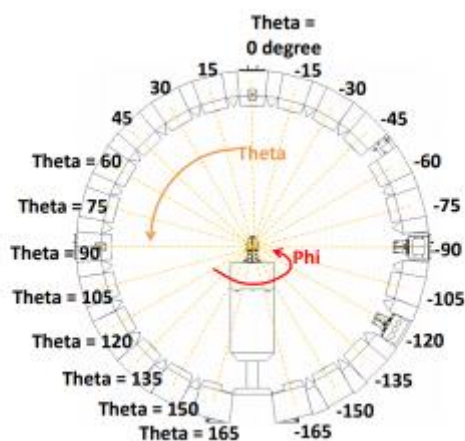


Figure 3-3 System diagram

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.

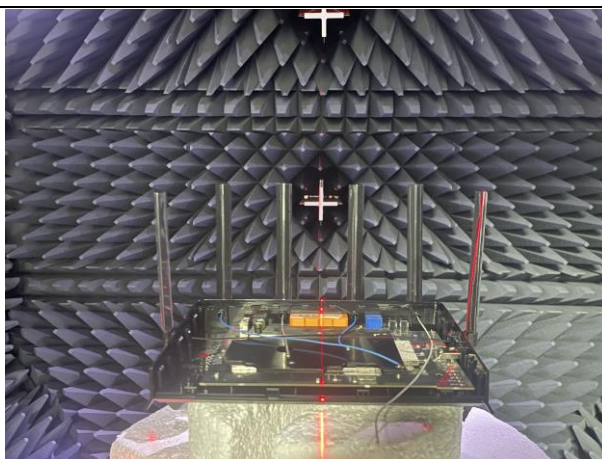


Figure 3-4 Antennas measurement diagram

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.

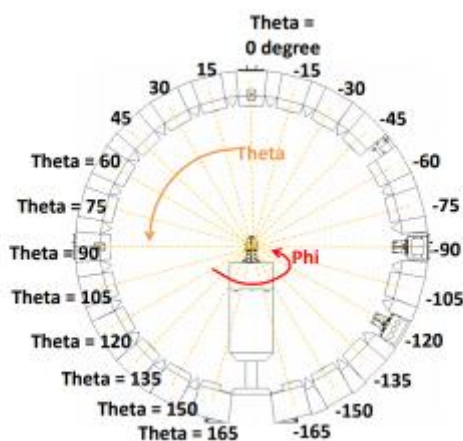


Figure 3-5 Test angle

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

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

- 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.

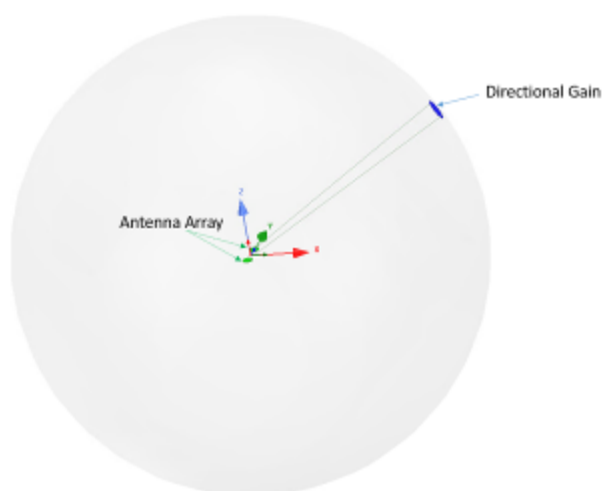


Figure 3-6 Directional Gain Calculation Sketch Map

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	Ant1	Ant1	Ant2
Ant2	Ant3	Ant6	Ant4
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)	4.12
Ant2(dBi)	5.12
Ant3(dBi)	3.58
Polarization	Theta
Φ (°)	270
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[$10^{(G/20)}$]	$10^{(4.12/20)}$
Ant2[$10^{(G/20)}$]	$10^{(5.12/20)}$
Ant3[$10^{(G/20)}$]	$10^{(3.58/20)}$
Ant1[$10^{(G/20)}$] value	1.61
Ant2[$10^{(G/20)}$] value	1.80
Ant3[$10^{(G/20)}$] value	1.51
Sum of Ants Value(Antmax)	4.92
DG[$10 * \log(Antmax^2 / Nant)$] (dBi)	9.07

4.2.3 DG_3SS Max Value Position

Table 4-4 DG_3SS Max Value Position

Frequency(GHz)	2.45
Ant1(dBi)	4.12
Ant2(dBi)	5.12
Ant3(dBi)	3.58
Polarization	Theta
Φ (°)	270
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)]	$10^{(4.12/10)}$
Ant2[10^(G/10)]	$10^{(5.12/10)}$
Ant3[10^(G/10)]	$10^{(3.58/10)}$
Ant1[10^(G/10)] value	2.58
Ant2[10^(G/10)] value	3.25
Ant3[10^(G/10)] value	2.28
Sum of Ants Value(Antmax)	8.11
DG[10*Log(Antmax/Nant)] (dBi)	4.32

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)	2.52	5.07	3.07	2.82
Ant2(dBi)	6.25	5.68	8.56	7.68
Polarization	Theta	Theta	Theta	Theta
Φ (°)	345	135	345	0
θ (°)	90	90	90	90

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)]	$10^{(2.52/20)}$	$10^{(5.07/20)}$	$10^{(3.07/20)}$	$10^{(2.82/20)}$

Ant2[10^{^(G/20)}]	10 ^{^(6.25/20)}	10 ^{^(5.68/20)}	10 ^{^(8.56/20)}	10 ^{^(7.68/20)}
Ant1[10^{^(G/20)}] value	1.34	1.79	1.42	1.38
Ant2[10^{^(G/20)}] value	2.05	1.92	2.68	2.42
Sum of Ants Value(Antmax)	3.39	3.71	4.10	3.80
DG[10*Log(Antmax²/Nant)] (dBi)	7.59	8.39	9.25	8.60

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)	2.52	5.07	3.07	2.82
Ant2(dBi)	6.25	5.68	8.56	7.68
Polarization	Theta	Theta	Theta	Theta
Φ (°)	345	135	345	0
θ (°)	90	90	90	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 ^{^(2.52/10)}	10 ^{^(5.07/10)}	10 ^{^(3.07/10)}	10 ^{^(2.82/10)}
Ant2[10^{^(G/10)}]	10 ^{^(6.25/10)}	10 ^{^(5.68/10)}	10 ^{^(8.56/10)}	10 ^{^(7.68/10)}
Ant1[10^{^(G/10)}] value	1.79	3.21	2.03	1.92
Ant2[10^{^(G/10)}] value	4.21	3.70	7.18	5.86
Sum of Ants Value(Antmax)	6.00	6.91	9.21	7.78
DG[10*Log(Antmax/Nant)] (dBi)	4.77	5.39	6.63	5.90

4.4 6G

4.4.1 DG_1SS Max Value Position

Table 4-10 DG_1SS Max Value Position

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1(dBi)	3.57	3.05	4.64	2.71
Ant2(dBi)	5.36	5.27	4.74	5.53
Polarization	Theta	Theta	Theta	Theta
Φ (°)	90	135	90	90
θ (°)	90	90	90	90

4.4.2 DG_1SS Max Value Position Calculation

Table 4-11 DG_1SS Max Value Position Calculation

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1[10 ^{^(G/20)}]	10 ^{^(3.57/20)}	10 ^{^(3.05/20)}	10 ^{^(4.64/20)}	10 ^{^(2.71/20)}
Ant2[10 ^{^(G/20)}]	10 ^{^(5.36/20)}	10 ^{^(5.27/20)}	10 ^{^(4.74/20)}	10 ^{^(5.53/20)}
Ant1[10 ^{^(G/20)}] value	1.51	1.42	1.71	1.37
Ant2[10 ^{^(G/20)}] value	1.85	1.83	1.73	1.89
Sum of Ants Value(Antmax)	4.36	3.25	3.44	3.26
DG[10*Log(Antmax ² /Nant)] (dBi)	7.52	7.24	7.70	7.24

4.4.3 DG_2SS Max Value Position

Table 4-12 DG_2SS Max Value Position

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1(dBi)	3.57	3.05	4.64	2.71
Ant2(dBi)	5.36	5.27	4.74	5.53
Polarization	Theta	Theta	Theta	Theta
Φ (°)	90	135	90	90
θ (°)	90	90	90	90

4.4.4 DG_2SS Max Value Position Calculation

Table 4-13 DG_2SS Max Value Position Calculation

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1[10 ^{^(G/10)}]	10 ^{^(3.57/10)}	10 ^{^(3.05/10)}	10 ^{^(4.64/10)}	10 ^{^(2.71/10)}
Ant2[10 ^{^(G/10)}]	10 ^{^(5.36/10)}	10 ^{^(5.27/10)}	10 ^{^(4.74/10)}	10 ^{^(5.53/10)}
Ant1[10 ^{^(G/10)}] value	2.28	2.02	2.91	1.87
Ant2[10 ^{^(G/10)}] value	3.44	3.37	2.98	3.57
Sum of Ants Value(Antmax)	5.72	5.39	5.89	5.44
DG[10*Log(Antmax/Nant)] (dBi)	4.56	4.30	4.69	4.34

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)	4.12	5.44	5.73	4.56	5.10	5.40	3.31	4.64	3.93
Ant2 MaxGain(dBi)	5.57	6.75	7.38	8.56	7.68	5.36	5.58	4.74	5.53
Ant3 MaxGain(dBi)	3.58								

Ant1 Polarization/ Φ (°) / θ (°)	Theta/ 270/90	Theta/ 165/90	Theta/ 165/90	Theta/ 195/90	Theta/ 195/90	Theta/ 105/90	Theta/ 75/90	Theta/ 90/90	Theta/ 60/90
Ant2 Polarization/ Φ (°) / θ (°)	Theta/ 105/90	Theta/ 330/90	Theta/ 330/90	Theta/ 245/90	Theta/ 0/90	Theta/ 90/90	Theta/ 90/90	Theta/ 90/90	Theta/ 90/90
Ant3 Polarization/ Φ (°) / θ (°)	Theta/ 270/90								
Max Gain(dBi)	5.57	6.75	7.38	8.56	7.68	5.40	5.58	4.74	5.53

5.2 Directional Gain Calculate Result

Table 5-2Test & Calculate Result

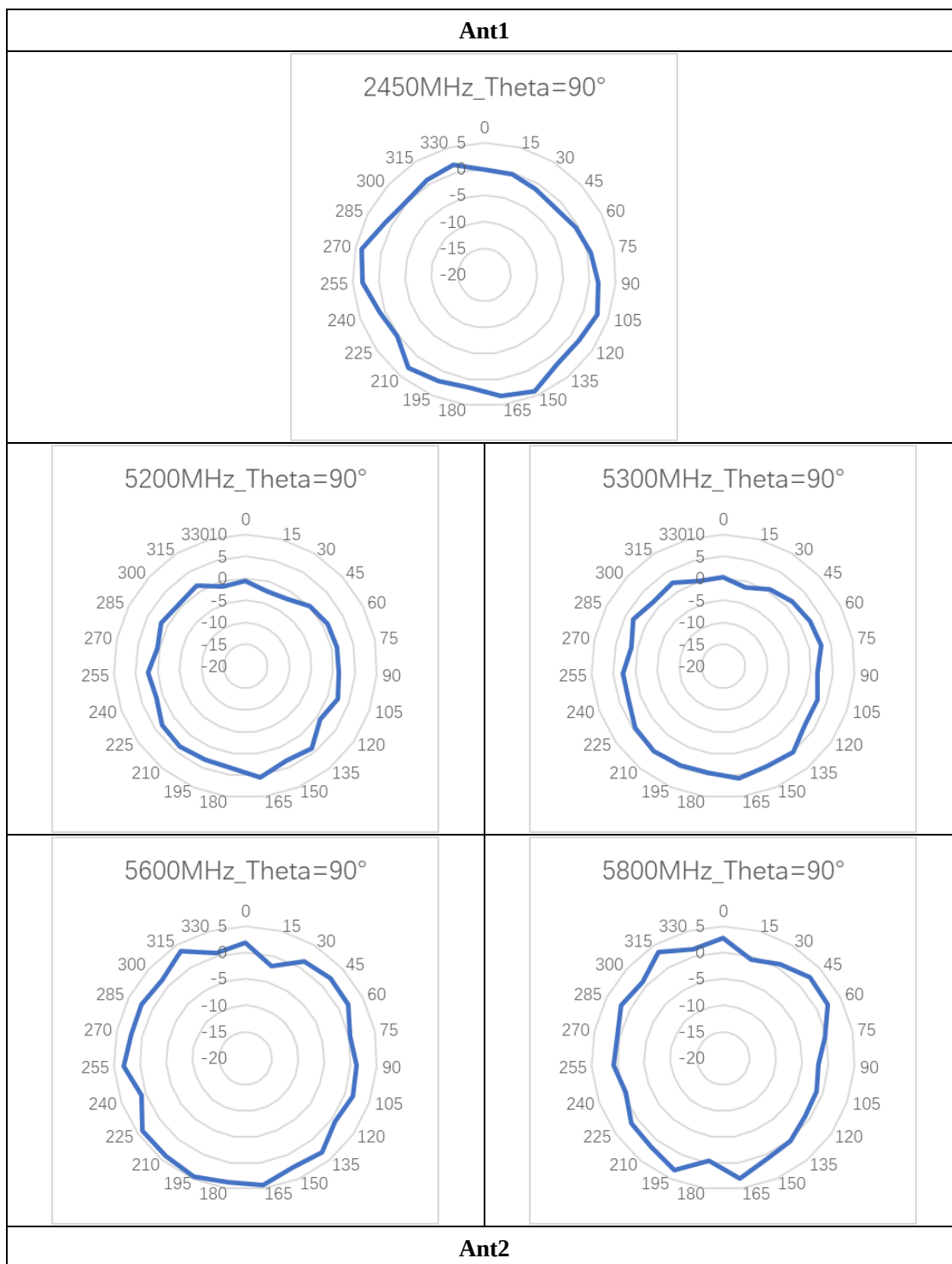
Frequency Band(MHz)	Max Antenna Gain	Max Composite Gain	NSS	Polarization/Φ (°) / θ (°)
2400-2483.5(2450)	5.57	9.07	1	Theta/270/90
5150-5250(5200)	6.75	7.59	1	Theta/345/90
5250-5350(5300)	7.38	8.39	1	Theta/135/90
5470-5725(5600)	8.56	9.25	1	Theta/345/90
5725-5850(5800)	7.68	8.6	1	Theta/0/90
5925-6425(6175)	5.4	7.52	1	Theta/90/90
6425-6525(6475)	5.58	7.24	1	Theta/135/90
6525-6875(6725)	4.74	7.7	1	Theta/90/90
6875-7125(7025)	5.53	7.24	1	Theta/90/90

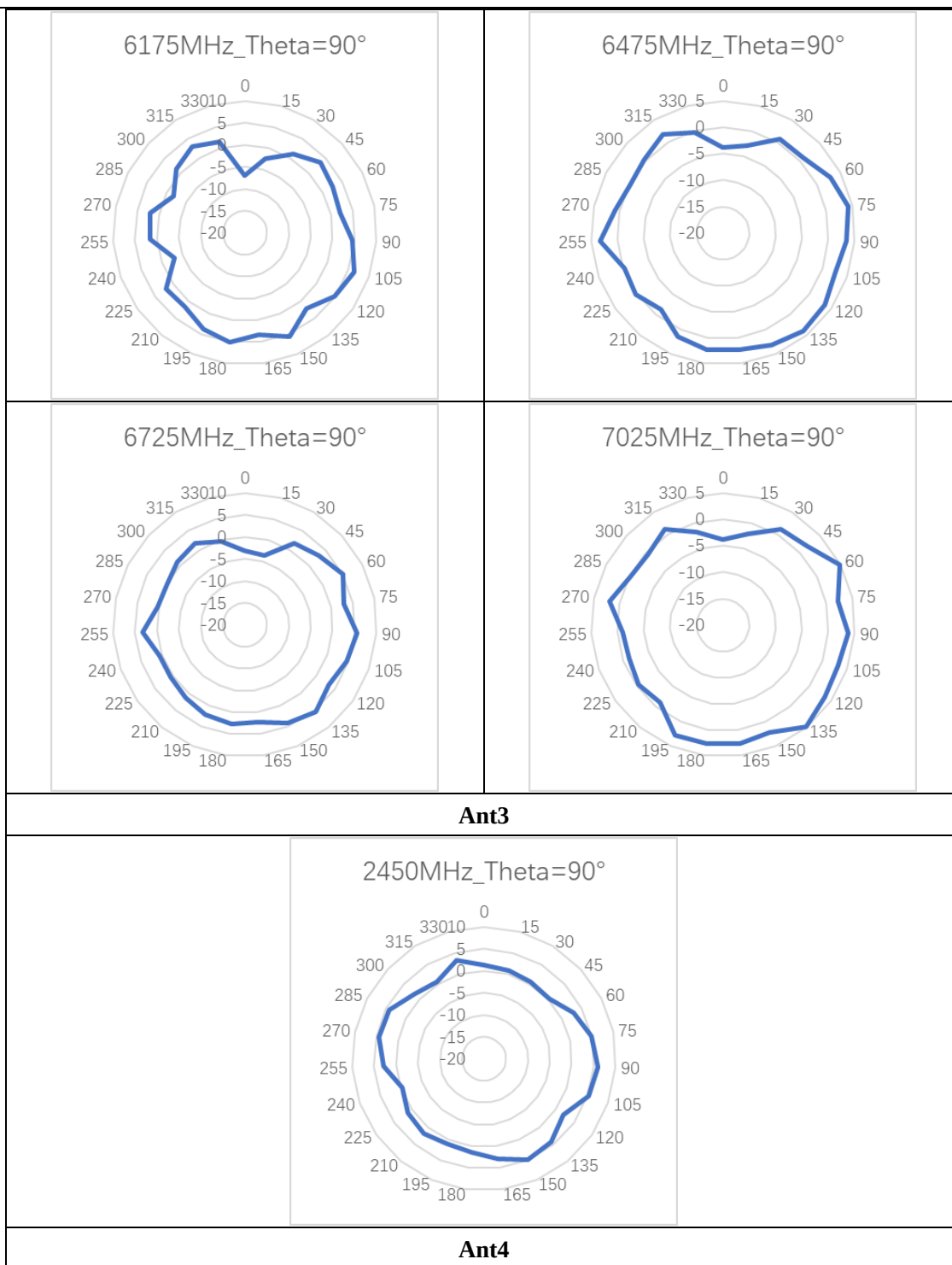
Table 5-3Test & Calculate Result

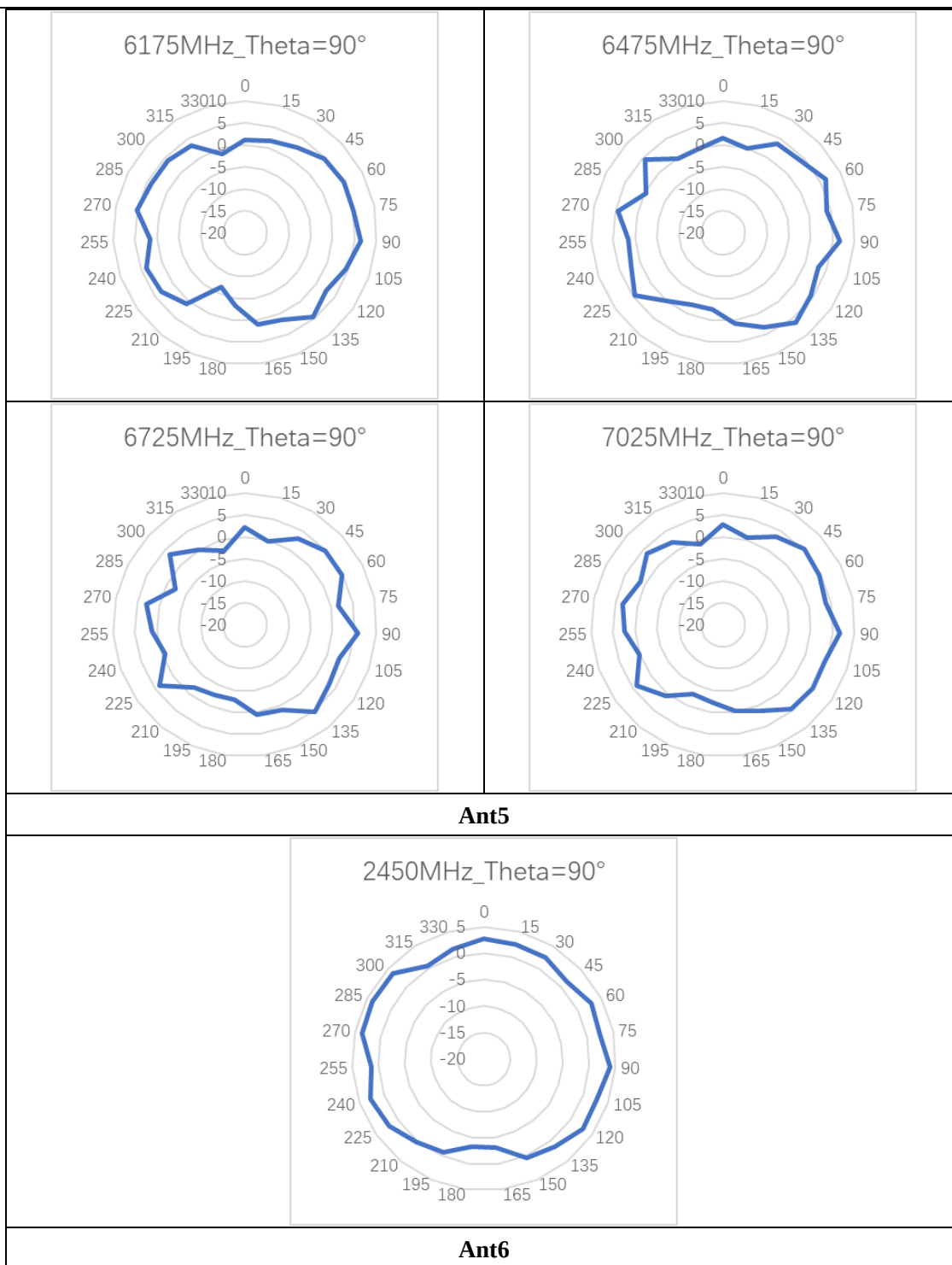
Frequency Band(MHz)	Max Antenna Gain	Max Directional Gain	NSS	Polarization/Φ (°) / θ (°)
2400-2483.5(2450)	5.57	4.32	3	Theta/270/90
5150-5250(5200)	6.75	4.77	2	Theta/345/90
5250-5350(5300)	7.38	5.39	2	Theta/135/90
5470-5725(5600)	8.56	6.63	2	Theta/345/90
5725-5850(5800)	7.68	5.9	2	Theta/0/90
5925-6425(6175)	5.4	4.56	2	Theta/90/90
6425-6525(6475)	5.58	4.30	2	Theta/135/90
6525-6875(6725)	4.74	4.69	2	Theta/90/90
6875-7125(7025)	5.53	4.34	2	Theta/90/90

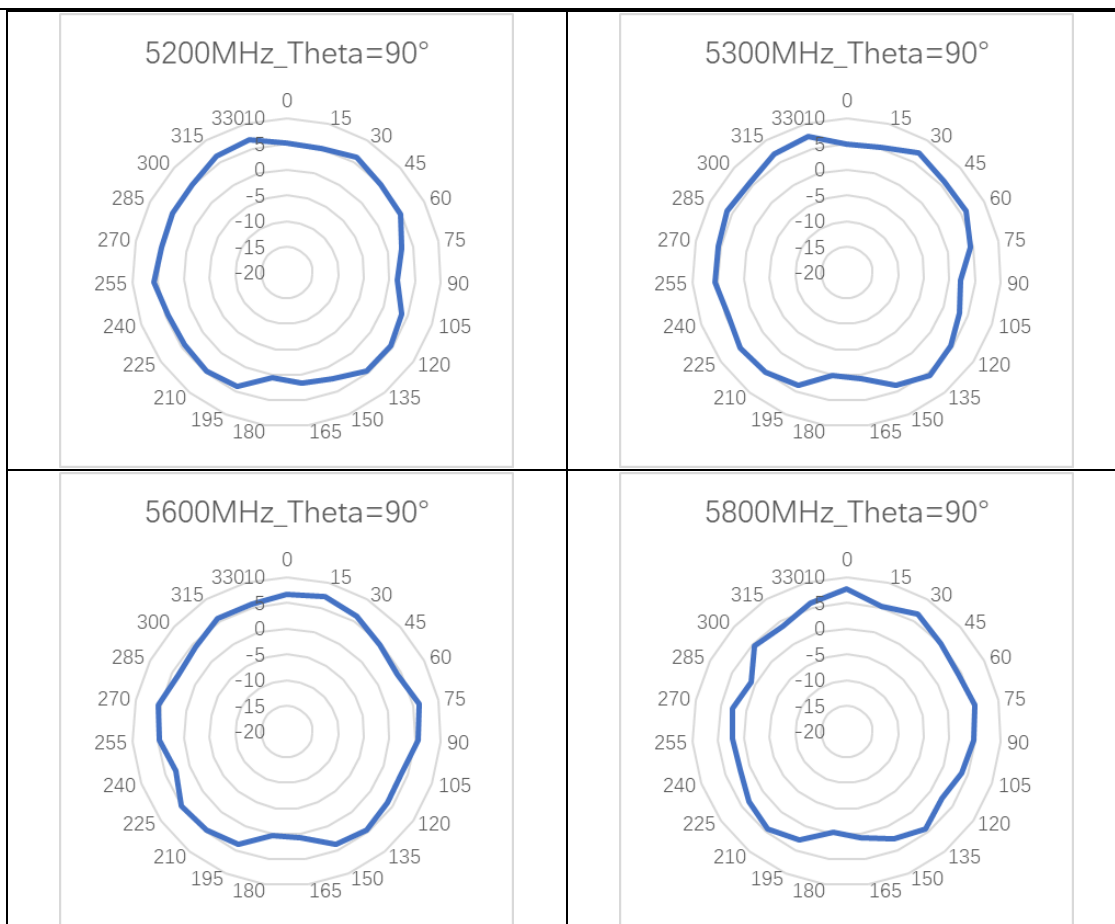
6 Test Pattern

6.1 Antenna Pattern









7 Test Pattern

Ant1													
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	-13.43	-14.16	-4.94	-3.3	-8.24	0.99	1.23	-2.4	-9.14	-15.63	-13.89	-10.72	-25.89
15.00	-14.11	-15.72	-5.81	-4.6	-7.2	-0.12	1.35	-1.94	-8.28	-15.13	-14.87	-10.38	-25.89
30.00	-14.71	-17.73	-6.41	-4.3	-6.18	-1.01	0.01	-2.74	-9.2	-13.19	-14.9	-9.97	-25.89
45.00	-13.62	-19.48	-7.5	-2.25	-3.69	-1.83	-0.54	-4.29	-12.75	-18.53	-15.3	-9.96	-25.89
60.00	-13.09	-23.99	-9.58	-3.42	-0.86	0.95	0.98	0	-4.16	-15.37	-15.37	-11.18	-25.89
75.00	-13.99	-21.8	-14.47	-5.1	-2.77	0.18	1.1	0.92	-3.65	-10.15	-14.75	-13.52	-25.89
90.00	-14.11	-17.66	-31.24	-7.24	-0.51	2.93	1.79	-0.87	-6.38	-10.68	-13.34	-16.17	-25.89
105.00	-13.89	-15.72	-13.51	-11.49	-2.95	2.78	2.61	0	-3.83	-13.09	-14.34	-17.83	-25.89
120.00	-14.05	-13.11	-11.24	-8.47	-3.43	2.14	2.68	0.89	-2.77	-9.64	-16.07	-14.07	-25.89
135.00	-13.49	-11.58	-10.6	-8.28	-4.19	1.31	2.95	2.02	-2.75	-9.01	-12.38	-11.5	-25.89
150.00	-13.17	-10.74	-9.19	-6.12	-1.99	1.86	3.48	3.74	-1.97	-11.53	-11.05	-11.89	-25.89
165.00	-13.99	-10.24	-8.23	-4.9	-1.09	1.79	2.58	1.88	-4.79	-10.72	-13.37	-14.08	-25.89
180.00	-15.03	-10.54	-7.95	-4.95	-1.07	2.56	2.75	-1.61	-9.34	-8.45	-14.98	-19.28	-25.89
195.00	-15.2	-12.03	-8.96	-5.17	-0.75	2.67	2.71	-1.34	-9.86	-10.92	-14.56	-25.89	-25.89
210.00	-15.09	-14.45	-10.44	-3.83	-0.78	3.11	3.8	0.56	-9.78	-20.72	-12.9	-21.17	-25.89
225.00	-14.48	-17.48	-12.9	-5.18	-2.85	2.21	2.33	-1.84	-12.88	-13.65	-12.88	-19.49	-25.89

240.00	-14.76	-19.18	-13.59	-7.47	-2.54	1.67	1.31	-0.4	-6.21	-9.65	-12.22	-15.84	-25.89
255.00	-14.51	-18.52	-12.15	-8.41	-2.6	-0.11	2.94	2.32	-3.75	-12.04	-11.07	-13.38	-25.89
270.00	-14.21	-16.68	-9.39	-4.67	-0.8	2.54	4.12	1.25	-7.95	-12.63	-11.85	-12.61	-25.89
285.00	-15.49	-14.19	-6.94	-3.31	-3.13	0.91	1.93	-0.8	-8.44	-13.42	-13.82	-12.34	-25.89
300.00	-15.94	-12.53	-6.99	-6.38	-4.11	-0.91	0.84	-1.33	-8.03	-12.14	-14.27	-11.35	-25.89
315.00	-14.65	-13.25	-6.88	-4.31	-6.11	-0.53	1.24	-1.27	-5.63	-6.96	-13.62	-10.4	-25.89
330.00	-14.65	-14.38	-5.11	-3.47	-7.1	1.47	1.3	0.41	-2.06	-4.58	-14.38	-10.38	-25.89
345.00	-14.51	-14.52	-4.41	-3.07	-6.33	1.75	1.26	-0.88	-3.81	-6.07	-13.36	-10.95	-25.89

Ant3													
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	-17.62	-11.07	-13.18	-12.36	-6.48	-0.54	1.13	-1.92	-7.99	-15.49	-12.04	-10.11	-18.7
15.00	-17.43	-11.35	-14.17	-14.99	-8.16	-2.27	0.84	-0.26	-7.77	-11.54	-15.08	-11.77	-18.7
30.00	-17.34	-12.85	-15.84	-16.19	-7.93	-2.35	0.6	-0.28	-5.19	-9.47	-12.07	-12.34	-18.7
45.00	-17.39	-16.01	-18.14	-11.14	-5.17	-1.51	-0.01	-0.53	-5.19	-9.13	-9.69	-12.96	-18.7
60.00	-16.78	-20.17	-15.3	-5.62	-2.1	1.17	2.68	1.69	-2.68	-9.85	-11.06	-13.62	-18.7
75.00	-15.77	-21.37	-11.83	-4.46	-1.42	3.11	4.02	3.8	-0.97	-8.78	-13.03	-13.38	-18.7
90.00	-15.28	-18.98	-10.55	-7.28	-2.02	4.06	5.38	4.88	0.17	-7.76	-12.28	-11.85	-18.7
105.00	-16	-17.61	-9.87	-10.68	-2.54	4.05	5.57	4.77	-0.09	-7.75	-9.94	-10.89	-18.7
120.00	-17.01	-16.64	-9.09	-10.51	-5.44	1.49	2.93	1.86	-3.37	-10.56	-8.39	-10.91	-18.7
135.00	-16.84	-16.61	-8.51	-9.22	-5.33	1.6	3.55	1.2	-4.3	-7.77	-7.41	-10.15	-18.7
150.00	-15.86	-18.07	-8.96	-9.59	-4.19	2.95	4.63	3.57	-1.47	-4.84	-7.4	-10.35	-18.7
165.00	-15.26	-20.96	-11.57	-11.51	-5.85	0.77	3.37	2.65	-1.34	-4.98	-10.78	-13.4	-18.7
180.00	-15.32	-22.71	-17.31	-12.31	-6.32	-0.99	1.44	0.13	-3.16	-6.57	-10.96	-18.7	-18.7
195.00	-16.37	-17.69	-19.26	-9.03	-5.03	-0.8	-0.22	-0.31	-2.95	-4.48	-9.53	-17.32	-18.7
210.00	-16.77	-13.92	-13.35	-6.24	-7.41	-3	0.91	-0.64	-4.82	-10.36	-12.53	-13.33	-18.7
225.00	-16.32	-12	-10.27	-5.69	-9.17	-0.08	1.59	-0.84	-4.55	-8.28	-10.4	-11.7	-18.7
240.00	-15.95	-10.98	-10.08	-8.12	-5.56	0.38	0.73	-0.54	-2.73	-6.33	-11.41	-13.72	-18.7
255.00	-16.57	-10.73	-12.76	-13.45	-5.54	1.54	3.15	2.35	-1.78	-6.78	-12.34	-16.11	-18.7
270.00	-17.68	-11.17	-17.33	-18.54	-3.64	2.89	5.12	3.73	-0.33	-4.5	-10.39	-13	-18.7
285.00	-17.95	-11.83	-19.29	-18.68	-5.11	2.02	4.1	2.62	-1.52	-7.14	-9.44	-9.72	-18.7
300.00	-17.07	-11.68	-16.57	-15.39	-6.57	-0.62	1	0.6	-2.83	-11.08	-10.48	-7.8	-18.7
315.00	-16.81	-11.26	-12.56	-14.61	-6.58	1.32	2.1	0.18	-2.13	-8.81	-11.3	-6.9	-18.7
330.00	-16.89	-11.13	-10.65	-11.36	-6.29	2.53	3.94	1.07	-4.31	-9.33	-11.81	-6.96	-18.7
345.00	-17.27	-11.18	-11.41	-9.48	-7.01	1.39	2.82	0.2	-7.1	-13.04	-11.26	-8.37	-18.7

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	-11.91	-17.43	-10.32	-8.65	-10.18	-1.88	2.34	2.97	-2.34	-9.49	-12.16	-6.87	-12.45
15.00	-11.88	-19.72	-11.73	-10.66	-6.99	0.38	2.72	1.19	-2.06	-1.68	-9.24	-6.61	-12.45

30.00	-12.29	-20.18	-10.33	-11.83	-15.23	-2.61	1.57	0.4	-6.11	-1.87	-4.89	-5.86	-12.45
45.00	-12.36	-20.23	-10.51	-12.88	-9.47	-3.01	-0.87	0.54	-3.73	-6.74	-4.57	-4.93	-12.45
60.00	-11.72	-18.91	-9.95	-9.22	-4.75	0.53	1.55	1.97	-1.85	-9.03	-5.99	-3.9	-12.45
75.00	-11.28	-17.33	-8.87	-5.39	-2.82	2.32	2.36	1.68	-1.6	-6.2	-6.65	-3.26	-12.45
90.00	-11.58	-15.58	-9.05	-3.7	-1.39	2.14	3.18	2.91	-0.38	-4.91	-7.69	-3.31	-12.45
105.00	-12.24	-13.32	-10.65	-2.66	0.18	3.08	3.28	1.29	-4.08	-7.39	-7.71	-3.41	-12.45
120.00	-12.89	-11.3	-11.67	-4.6	-0.64	3	2.57	0.98	-2.67	-5.4	-5.58	-3.76	-12.45
135.00	-13.22	-10.21	-10.43	-8.45	-4.68	-0.67	0.12	0.37	-2.89	-4.13	-5.74	-6.02	-12.45
150.00	-12.87	-9.88	-9.61	-5.73	-1.6	1.18	1.31	-1.22	-6.43	-6.45	-8.98	-11.83	-12.45
165.00	-12.12	-10.21	-10.87	-6.96	-4.68	-4.22	-3.26	-2.18	-2.55	-4.23	-6.71	-12.45	-12.45
180.00	-11.37	-10.87	-10.75	-7.13	-5.84	-3.4	-3.01	-1.7	-3.79	-3.98	-3.32	-6.35	-12.45
195.00	-11.36	-11.11	-7.93	-4.98	-6.66	-5.29	-2.47	-3.41	-9.43	-8.64	-4.47	-3.81	-12.45
210.00	-12.16	-10.34	-6.96	-6.76	-8.41	-2.05	-0.65	-0.03	-3.36	-8.23	-10.8	-3.38	-12.45
225.00	-12.77	-9.83	-7.83	-9.66	-5.81	-1.18	1.15	1.28	-1.95	-7	-18.61	-3.87	-12.45
240.00	-12.77	-9.76	-9.65	-8.52	-6.47	-1.37	1.27	-0.08	-6.15	-5.88	-12.06	-5.28	-12.45
255.00	-12.64	-9.18	-10.35	-10.45	-7.44	-0.17	1.64	-0.92	-5.14	-4.93	-10.53	-6.49	-12.45
270.00	-11.68	-8.73	-8.77	-8.92	-8.41	1.5	3.58	1.57	-4.2	-6.9	-11.22	-5.8	-12.45
285.00	-11.06	-9.25	-8.26	-6.07	-8.55	0.79	3.5	1.76	-3.1	-7.25	-12.99	-4.48	-12.45
300.00	-11.66	-10.58	-8.51	-6.71	-6.91	-0.09	2.83	2.08	-1.93	-7.15	-9.29	-3.74	-12.45
315.00	-11.99	-12.49	-8.26	-5.34	-6.84	-2.44	0.94	-0.6	-6.37	-8.92	-5.79	-4.28	-12.45
330.00	-11.63	-14.53	-7.03	-4.65	-3.97	-0.19	1.6	2.08	-1.55	-2.51	-3.62	-5.58	-12.45
345.00	-11.71	-15.66	-7.61	-6.39	-8.86	0.3	2.97	-0.11	-4.53	-4.42	-4.67	-6.63	-12.45

2450MHz Composite Gain (1SS)													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-9.23	-9.07	-4.02	-2.53	-3.40	4.37	6.36	4.68	-1.18	-8.27	-7.89	-4.29	-12.61
15.00	-9.41	-10.16	-5.06	-4.27	-2.66	4.18	6.44	4.53	-0.78	-2.74	-7.85	-4.53	-12.61
30.00	-9.77	-11.60	-5.27	-4.59	-4.22	2.81	5.52	4.00	-1.90	-2.09	-4.78	-4.20	-12.61
45.00	-9.44	-13.60	-6.25	-2.65	-1.01	2.68	4.31	3.58	-1.66	-5.42	-4.02	-3.87	-12.61
60.00	-8.84	-16.00	-6.48	-1.00	2.35	5.66	6.54	6.03	1.93	-6.23	-5.20	-3.77	-12.61
75.00	-8.71	-15.15	-6.65	-0.20	2.46	6.73	7.35	6.99	2.77	-3.45	-5.97	-3.85	-12.61
90.00	-8.75	-12.52	-8.16	-1.13	3.49	7.85	8.35	7.39	3.04	-2.70	-5.97	-3.99	-12.61
105.00	-9.14	-10.60	-6.44	-2.53	3.12	8.09	8.69	7.03	2.30	-4.28	-5.48	-4.03	-12.61
120.00	-9.71	-8.64	-5.82	-2.74	1.83	7.00	7.50	6.03	1.84	-3.46	-4.23	-3.70	-12.61
135.00	-9.60	-7.62	-5.02	-3.87	0.05	5.57	7.10	5.99	1.49	-1.94	-3.31	-4.13	-12.61
150.00	-9.10	-7.43	-4.48	-2.21	2.25	6.80	8.02	7.08	1.75	-2.40	-4.25	-6.56	-12.61
165.00	-8.92	-7.80	-5.33	-2.60	1.14	4.59	6.13	5.80	1.99	-1.43	-5.08	-8.51	-12.61
180.00	-8.94	-8.43	-6.42	-2.85	0.70	4.51	5.49	3.75	-0.25	-1.37	-3.60	-7.79	-12.61
195.00	-9.27	-8.39	-6.01	-1.43	0.99	4.22	5.04	3.18	-2.03	-2.82	-3.80	-6.37	-12.61
210.00	-9.69	-7.93	-5.09	-0.74	-0.06	4.56	6.32	4.75	-0.81	-6.89	-7.26	-4.94	-12.61
225.00	-9.63	-7.78	-5.32	-1.85	-0.80	5.20	6.47	4.40	-0.59	-4.43	-8.56	-4.71	-12.61

240.00	-9.62	-7.66	-6.17	-3.25	0.08	5.09	5.88	4.43	-0.10	-2.36	-7.12	-5.57	-12.61
255.00	-9.65	-7.19	-6.92	-5.76	-0.19	5.23	7.37	6.15	1.32	-2.66	-6.51	-6.24	-12.61
270.00	-9.41	-6.83	-6.29	-4.26	1.03	7.10	9.07	7.03	1.16	-2.62	-6.36	-5.03	-12.61
285.00	-9.58	-6.75	-5.27	-2.51	-0.55	6.03	8.00	6.08	0.88	-4.05	-7.10	-3.44	-12.61
300.00	-9.79	-6.79	-5.03	-3.85	-1.00	4.24	6.38	5.33	0.89	-5.08	-6.33	-2.31	-12.61
315.00	-9.49	-7.52	-4.14	-2.26	-1.73	4.36	6.21	4.23	0.27	-3.41	-4.82	-2.07	-12.61
330.00	-9.35	-8.43	-2.53	-1.10	-0.91	6.11	7.13	5.99	2.21	-0.26	-3.89	-2.64	-12.61
345.00	-9.43	-8.80	-2.58	-1.15	-2.56	5.94	7.15	4.52	-0.26	-2.35	-4.16	-3.70	-12.61

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	-13.73	-13.48	-8.13	-6.56	-8.04	-0.32	1.60	0.28	-5.41	-12.52	-12.62	-8.89	-16.14
15.00	-13.92	-14.33	-9.11	-8.10	-7.42	-0.53	1.71	-0.15	-5.05	-5.85	-12.15	-9.01	-16.14
30.00	-14.31	-15.83	-9.36	-8.13	-8.42	-1.93	0.77	-0.68	-6.52	-5.68	-8.55	-8.55	-16.14
45.00	-13.99	-18.16	-10.27	-6.17	-5.50	-2.07	-0.46	-0.99	-5.85	-9.35	-7.90	-8.02	-16.14
60.00	-13.39	-20.55	-10.95	-5.48	-2.29	0.89	1.80	1.30	-2.79	-10.66	-9.22	-7.55	-16.14
75.00	-13.28	-19.67	-11.13	-4.97	-2.29	2.04	2.66	2.31	-1.93	-8.06	-10.01	-7.27	-16.14
90.00	-13.37	-17.18	-11.48	-5.73	-1.26	3.12	3.71	2.90	-1.37	-7.17	-10.37	-7.32	-16.14
105.00	-13.78	-15.20	-11.08	-6.33	-1.54	3.34	4.01	2.51	-2.26	-8.76	-9.89	-7.34	-16.14
120.00	-14.33	-13.17	-10.51	-7.15	-2.72	2.25	2.73	1.27	-2.93	-7.91	-8.28	-7.44	-16.14
135.00	-14.24	-12.06	-9.74	-8.63	-4.71	0.86	2.44	1.25	-3.26	-6.45	-7.73	-8.57	-16.14
150.00	-13.78	-11.70	-9.25	-6.84	-2.45	2.06	3.35	2.55	-2.80	-6.81	-8.89	-11.30	-16.14
165.00	-13.60	-11.81	-9.97	-7.02	-3.38	0.12	1.72	1.24	-2.67	-5.85	-9.42	-13.26	-16.14
180.00	-13.51	-12.33	-10.57	-7.20	-3.71	0.08	1.00	-0.98	-4.70	-5.95	-7.16	-10.67	-16.14
195.00	-13.75	-12.81	-10.00	-6.04	-3.40	-0.03	0.52	-1.50	-6.17	-7.18	-7.75	-8.37	-16.14
210.00	-14.25	-12.49	-9.48	-5.41	-4.12	0.24	1.75	-0.01	-5.25	-10.78	-11.98	-7.67	-16.14
225.00	-14.29	-12.10	-9.86	-6.44	-5.22	0.55	1.72	-0.27	-4.60	-8.85	-12.83	-7.88	-16.14
240.00	-14.29	-11.81	-10.79	-8.01	-4.52	0.40	1.11	-0.34	-4.71	-6.99	-11.88	-9.15	-16.14
255.00	-14.28	-11.36	-11.63	-10.31	-4.73	0.50	2.63	1.50	-3.34	-7.03	-11.25	-10.08	-16.14
270.00	-13.88	-11.12	-10.52	-7.93	-3.28	2.35	4.32	2.33	-3.11	-6.89	-11.11	-9.11	-16.14
285.00	-13.89	-11.30	-9.17	-6.15	-5.07	1.28	3.27	1.42	-3.51	-8.47	-11.64	-7.60	-16.14
300.00	-14.23	-11.52	-9.17	-8.03	-5.67	-0.53	1.65	0.67	-3.57	-9.56	-10.88	-6.56	-16.14
315.00	-14.04	-12.25	-8.64	-6.33	-6.50	-0.28	1.45	-0.52	-4.29	-8.13	-8.96	-6.52	-16.14
330.00	-13.86	-13.05	-7.04	-5.40	-5.58	1.41	2.45	1.24	-2.49	-4.66	-7.47	-7.21	-16.14
345.00	-13.92	-13.35	-6.93	-5.55	-7.27	1.19	2.42	-0.24	-4.93	-6.59	-8.12	-8.31	-16.14

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	-16.01	-7.14	-6.58	-2.13	-19.24	-0.42	-0.67	-0.92	-6.22	-9.87	-6.55	-14.42	-18.99
15.00	-16.22	-8.04	-6.52	-2.59	-15.74	-0.67	-2.21	-2.23	-12.85	-9.38	-6.07	-13.67	-18.99
30.00	-15.58	-9.37	-6.27	-5.19	-10.6	0.09	-2.11	-0.9	-10.28	-18.29	-11.11	-13.89	-18.99

45.00	-15.86	-13.48	-6.95	-6.07	-10.82	-1.58	0.08	-0.11	-14.62	-10.45	-7.55	-13.58	-18.99
60.00	-15.95	-17.24	-5.53	-2.75	-6.91	-3.7	1.14	-0.15	-10.06	-10.6	-10.45	-14.31	-18.99
75.00	-16.1	-12.07	-7.79	-5.75	-6.46	-1.95	1.34	-0.17	-7.91	-12.79	-6.75	-16.22	-18.99
90.00	-15.99	-8.2	-9.08	-1.51	-10.31	-0.94	1.28	0.09	-11.03	-10.23	-11.78	-15.94	-18.99
105.00	-14.67	-9.09	-9.54	-4.11	-10.06	-1.11	2.3	-2.85	-13.89	-15.92	-16.6	-11.46	-18.99
120.00	-14.56	-11.58	-6.44	-1.66	-2.8	-3.61	0.86	0.78	-6.64	-8.41	-6.58	-10.7	-18.99
135.00	-15.62	-15.76	-4.99	-3.39	-3.63	-1.23	3.93	-1.22	-9.91	-8.51	-6.73	-10.69	-18.99
150.00	-15.24	-19.02	-5.48	-1.69	-4.68	-1.41	3.35	-3.94	-7.18	-8.01	-7.33	-10.02	-18.99
165.00	-15.19	-17.66	-6.25	-1.34	-2.22	0.92	5.44	0.46	-10.1	-8.13	-9.85	-9.42	-18.99
180.00	-16.09	-16.79	-7.89	-2.17	-1.15	0.01	3.33	-0.71	-5.58	-8.1	-12.02	-9.61	-18.99
195.00	-14.77	-16.8	-7.99	-4.58	-4.57	-1.58	3.16	-0.55	-11.13	-6.08	-9.1	-10.89	-18.99
210.00	-14.71	-16.42	-7.11	-2.88	-3.2	-1.71	3.55	-1.79	-9.83	-7.48	-5.9	-12.38	-18.99
225.00	-15.82	-12.39	-10.31	-2.56	-4.13	-2.69	3.25	-1.72	-7.66	-8.26	-8.68	-11.67	-18.99
240.00	-15.46	-10.54	-6.26	-2.17	-13.3	-1.3	1.5	0.63	-8.25	-9.14	-6.67	-8.27	-18.99
255.00	-15.22	-11.83	-7.46	-4.84	-7.22	-1.38	2.3	-1.19	-11.73	-8.75	-10.3	-9.66	-18.99
270.00	-16.12	-14.83	-7.11	-4.9	-6.72	-3.69	0.4	-2.39	-13.47	-3.65	-9.06	-18.59	-18.99
285.00	-16.36	-15.54	-5.21	-5.56	-9.56	-2	1.59	1.47	-8.83	-9.1	-7.08	-15.73	-18.99
300.00	-15.78	-9.86	-9.92	-3.54	-9.95	-0.88	0.61	-0.31	-12.33	-9.05	-9	-15.93	-18.99
315.00	-16.08	-7.02	-5.49	-2.16	-9.52	-2.07	1.51	-0.55	-10.74	-8.53	-12.53	-18.99	-18.99
330.00	-16.22	-6.25	-3.51	-2.6	-9.9	-0.64	-1.25	0.2	-14.2	-12.46	-15.59	-18.64	-18.99
345.00	-16.13	-6.45	-5.02	-3.55	-9.62	-3.68	2.52	-1.98	-5.81	-7.31	-9.23	-17.02	-18.99

Ant6													
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	-11.47	-14.58	-16.63	-9.58	-7.13	-2.59	5.17	4.04	-5.35	-9.71	-13.26	-16.18	-17.86
15.00	-11.22	-15.49	-13.67	-14.73	-4.57	-7.03	4.97	5.53	-10.55	-8.77	-10.12	-17.86	-17.86
30.00	-11.4	-15.48	-10.47	-6.18	-4.31	-6.57	6.11	4.12	-8.6	-6.07	-6.93	-14.03	-17.86
45.00	-11.17	-13.37	-11.27	-5.95	-3.96	-7.29	4.93	4.17	-12.46	-3.93	-8.78	-10.58	-17.86
60.00	-11.21	-12.13	-13.72	-3.97	-4.76	-4.61	4.87	3.39	-9.96	-9.97	-13.83	-8.71	-17.86
75.00	-11.47	-12.54	-12.34	-6.88	-9.15	-5.21	2.86	2.42	-15.36	-7.15	-11.13	-9.51	-17.86
90.00	-11.17	-15.07	-12.29	-6.57	-8.7	-3.84	1.42	0.24	-11.57	-6.81	-16.17	-11.71	-17.86
105.00	-11.36	-15.34	-18.24	-10.27	-7.65	-3.05	3.76	1.08	-10.43	-7.46	-7.2	-11.26	-17.86
120.00	-11.45	-14.89	-13.1	-11.15	-4.14	-4.01	4.74	0.86	-7.61	-9.19	-20.45	-13.7	-17.86
135.00	-10.89	-13.91	-10.88	-9.83	-6.43	-2.11	4.54	1.53	-7.6	-11.35	-11.14	-16.02	-17.86
150.00	-11.12	-12.83	-7.91	-6.41	-10.3	0.86	2.5	-2.56	-15.12	-10.94	-18.35	-13.52	-17.86
165.00	-11.09	-11.92	-5.1	-5.35	-8.8	-2.02	1.56	-1.34	-5.57	-12.43	-13.51	-11.79	-17.86
180.00	-11.18	-10.05	-5.07	-4.45	-13.28	0.46	0.63	-1.19	-4.28	-9.82	-11.45	-13.58	-17.86
195.00	-11.97	-8.55	-3.85	-4.98	-8.4	-0.59	3.95	-2.76	-4.72	-6.51	-9.25	-13.56	-17.86
210.00	-12.33	-7.41	-4.28	-7.31	-7.15	0.26	4.73	1.51	-7.72	-12.48	-10.23	-11.28	-17.86
225.00	-11.97	-6.22	-7.58	-4.61	-5.11	-2.54	4.4	1.8	-11.85	-10.88	-12.85	-9.2	-17.86
240.00	-12.26	-6.1	-5.91	-6.3	-9.16	-1.5	4.5	1.72	-11.69	-9.93	-12.32	-10.62	-17.86
255.00	-11.62	-7.44	-7.57	-5.03	-6.75	-1.67	5.91	1.71	-11.17	-7.5	-11.03	-12.8	-17.86

270.00	-11.48	-10.53	-9.43	-10.16	-4.65	-3.74	4.82	2.04	-16.5	-5.47	-18.76	-10.89	-17.86
285.00	-11.8	-14.67	-13.03	-6.71	-6.81	-1.93	5.03	2.85	-11.44	-7.89	-15.09	-12.28	-17.86
300.00	-12.27	-14.68	-10.92	-7.76	-9.42	-0.44	5.15	2.77	-10.78	-5.96	-10.88	-14.38	-17.86
315.00	-12.34	-12.49	-10.29	-8.51	-2.66	-3.1	6.37	2.62	-11.96	-4.44	-12.06	-9.73	-17.86
330.00	-12.37	-11.73	-9.01	-8.87	-4.3	-7.35	6.75	3.84	-9.7	-3.72	-9.02	-8.33	-17.86
345.00	-12.05	-12.96	-11.26	-9.86	-5.25	-3.2	6.25	4.49	-12.42	-5.69	-10.08	-10.87	-17.86

5200MHz Composite Gain (1SS)													
Freq	5200.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-10.44	-7.08	-7.22	-2.07	-8.22	1.57	5.74	4.92	-2.76	-6.78	-6.26	-12.25	-15.40
15.00	-10.35	-7.98	-6.37	-3.68	-5.46	-0.27	5.11	5.50	-8.61	-6.06	-4.85	-12.50	-15.40
30.00	-10.23	-8.89	-5.11	-2.66	-3.89	0.39	5.95	4.98	-6.39	-7.18	-5.76	-10.95	-15.40
45.00	-10.19	-10.41	-5.83	-3.00	-3.72	-0.96	5.85	5.30	-10.46	-3.58	-5.13	-8.94	-15.40
60.00	-10.25	-11.30	-5.68	-0.33	-2.76	-1.13	6.21	4.81	-7.00	-7.27	-8.97	-8.06	-15.40
75.00	-10.47	-9.29	-6.76	-3.29	-4.69	-0.42	5.14	4.23	-7.85	-6.51	-5.66	-9.22	-15.40
90.00	-10.24	-7.96	-7.53	-0.67	-6.46	0.74	4.36	3.18	-8.29	-5.34	-10.69	-10.56	-15.40
105.00	-9.85	-8.65	-9.83	-3.64	-5.76	0.98	6.07	2.35	-8.98	-7.69	-7.68	-8.35	-15.40
120.00	-9.86	-10.07	-6.14	-2.16	-0.43	-0.80	6.03	3.83	-4.10	-5.78	-7.99	-9.06	-15.40
135.00	-9.93	-11.78	-4.43	-3.02	-1.91	1.35	7.25	3.27	-5.67	-6.80	-5.65	-9.94	-15.40
150.00	-9.93	-12.37	-3.60	-0.72	-4.03	2.81	5.95	-0.21	-7.26	-6.34	-8.19	-8.58	-15.40
165.00	-9.89	-11.31	-2.65	-0.11	-1.89	2.58	6.73	2.62	-4.53	-7.01	-8.48	-7.51	-15.40
180.00	-10.28	-9.77	-3.36	-0.23	-2.24	3.25	5.09	2.06	-1.90	-5.91	-8.72	-8.36	-15.40
195.00	-10.25	-8.72	-2.67	-1.77	-3.27	1.94	6.57	1.43	-4.34	-3.28	-6.16	-9.11	-15.40
210.00	-10.43	-7.79	-2.57	-1.81	-1.94	2.34	7.17	3.03	-5.70	-6.61	-4.79	-8.80	-15.40
225.00	-10.67	-5.76	-5.83	-0.51	-1.60	0.40	6.85	3.23	-6.49	-6.46	-7.51	-7.34	-15.40
240.00	-10.70	-5.03	-3.07	-0.98	-7.98	1.61	6.14	4.20	-6.79	-6.52	-6.03	-6.36	-15.40
255.00	-10.22	-6.35	-4.50	-1.92	-3.97	1.49	7.30	3.39	-8.44	-5.09	-7.65	-8.08	-15.40
270.00	-10.48	-9.41	-5.18	-4.13	-2.61	-0.70	5.90	3.11	-11.84	-1.50	-9.61	-10.90	-15.40
285.00	-10.77	-12.08	-5.26	-3.11	-5.07	1.05	6.49	5.20	-7.03	-5.46	-7.18	-10.82	-15.40
300.00	-10.84	-8.93	-7.40	-2.39	-6.67	2.35	6.18	4.38	-8.51	-4.36	-6.88	-12.11	-15.40
315.00	-11.00	-6.32	-4.55	-1.76	-2.42	0.44	7.29	4.19	-8.32	-3.24	-9.28	-10.17	-15.40
330.00	-11.07	-5.55	-2.82	-2.17	-3.65	-0.35	6.65	5.22	-8.65	-4.02	-8.69	-9.03	-15.40
345.00	-10.84	-6.10	-4.58	-3.13	-4.15	-0.43	7.59	4.85	-5.49	-3.45	-6.63	-10.40	-15.40

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	-13.17	-9.43	-9.18	-4.42	-9.88	-1.37	3.17	2.23	-5.76	-9.79	-8.72	-15.21	-18.39
15.00	-13.04	-10.33	-8.76	-5.34	-7.26	-2.78	2.72	3.19	-11.55	-9.06	-7.64	-15.28	-18.39
30.00	-13.01	-11.43	-7.88	-5.66	-6.40	-2.07	3.71	2.30	-9.36	-8.83	-8.54	-13.96	-18.39
45.00	-12.91	-13.42	-8.59	-6.01	-6.16	-3.56	3.15	2.54	-13.41	-6.07	-8.12	-11.83	-18.39
60.00	-12.96	-13.97	-7.93	-3.32	-5.70	-4.13	3.39	1.97	-10.01	-10.27	-11.82	-10.66	-18.39



75.00	-13.20	-12.30	-9.49	-6.28	-7.60	-3.28	2.17	1.32	-10.20	-9.11	-8.41	-11.68	-18.39
90.00	-12.94	-10.40	-10.39	-3.34	-9.43	-2.15	1.35	0.17	-11.29	-8.19	-13.44	-13.33	-18.39
105.00	-12.71	-11.18	-12.00	-6.18	-8.69	-1.97	3.09	-0.45	-11.82	-9.89	-9.74	-11.36	-18.39
120.00	-12.73	-12.93	-8.60	-4.21	-3.42	-3.81	3.22	0.82	-7.10	-8.78	-9.42	-11.95	-18.39
135.00	-12.64	-14.74	-7.00	-5.51	-4.81	-1.65	4.25	0.37	-8.60	-9.70	-8.40	-12.58	-18.39
150.00	-12.71	-14.90	-6.53	-3.44	-6.64	-0.13	2.95	-3.20	-9.54	-9.23	-10.01	-11.43	-18.39
165.00	-12.67	-13.90	-5.64	-2.90	-4.37	-0.31	3.92	-0.35	-7.27	-9.77	-11.31	-10.45	-18.39
180.00	-12.98	-12.23	-6.26	-3.16	-3.90	0.24	2.19	-0.94	-4.88	-8.88	-11.73	-11.16	-18.39
195.00	-13.15	-10.95	-5.44	-4.78	-6.08	-1.06	3.57	-1.52	-6.84	-6.29	-9.17	-12.02	-18.39
210.00	-13.36	-9.91	-5.47	-4.55	-4.74	-0.61	4.18	0.17	-8.65	-9.30	-7.55	-11.80	-18.39
225.00	-13.48	-8.29	-8.73	-3.47	-4.59	-2.61	3.86	0.39	-9.27	-9.38	-10.28	-10.26	-18.39
240.00	-13.57	-7.78	-6.08	-3.76	-10.75	-1.40	3.25	1.21	-9.64	-9.52	-8.63	-9.29	-18.39
255.00	-13.06	-9.10	-7.51	-4.93	-6.98	-1.52	4.47	0.50	-11.44	-8.08	-10.65	-10.95	-18.39
270.00	-13.21	-12.17	-8.12	-6.78	-5.56	-3.71	3.15	0.37	-14.73	-4.47	-11.63	-13.22	-18.39
285.00	-13.51	-15.08	-7.56	-6.10	-7.97	-1.96	3.64	2.21	-9.94	-8.45	-9.45	-13.67	-18.39
300.00	-13.68	-11.63	-10.39	-5.16	-9.68	-0.65	3.45	1.50	-11.49	-7.24	-9.84	-15.09	-18.39
315.00	-13.82	-8.95	-7.26	-4.27	-4.86	-2.55	4.59	1.32	-11.31	-6.02	-12.29	-12.25	-18.39
330.00	-13.88	-8.18	-5.44	-4.69	-6.25	-2.81	4.38	2.39	-11.39	-6.19	-11.17	-10.95	-18.39
345.00	-13.63	-8.58	-7.10	-5.65	-6.91	-3.43	4.77	2.36	-7.96	-6.42	-9.63	-12.94	-18.39

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	-18.46	-9.94	-6.23	-5.31	-18.08	-0.1	0.31	-0.77	-4.93	-12.04	-6.94	-12.59	-19.86
15.00	-17.61	-11.18	-7.34	-5.72	-18.59	-0.13	-1.44	-2.5	-11.97	-11.41	-7.34	-13.29	-19.86
30.00	-17.75	-13.61	-9.05	-6.26	-10.01	1.32	0.57	-1.03	-12.34	-19.34	-12.21	-12.92	-19.86
45.00	-17.14	-17.12	-9.62	-6.43	-10.73	-0.13	1.62	0.24	-17.04	-10.7	-9.26	-12.16	-19.86
60.00	-18.12	-15.62	-8.32	-4.21	-7.76	-0.9	2.34	-0.54	-11.94	-11.51	-9.93	-13.76	-19.86
75.00	-18.4	-11.18	-10.83	-6.29	-6.47	0.14	2.85	-0.69	-8.95	-10.7	-6.24	-15.62	-19.86
90.00	-18.13	-10.86	-9.75	-3.34	-10.21	-0.19	1.52	-0.54	-13.23	-7.95	-11.26	-12.67	-19.86
105.00	-18.65	-11.87	-9.59	-4.02	-7.97	-0.67	2.78	-2.69	-23.56	-10.79	-15.51	-9.55	-19.86
120.00	-17.1	-19.26	-6.79	-3.55	-3.49	-0.16	2.8	0.39	-5.93	-7.93	-6.28	-9.96	-19.86
135.00	-15.51	-21.11	-5.74	-3.28	-5.3	2.2	5.07	-0.54	-10.14	-8.14	-7.04	-10.56	-19.86
150.00	-17.28	-16.43	-5.99	-3.49	-7.73	-0.52	4.83	-5.71	-5.34	-5.28	-9.58	-10.72	-19.86
165.00	-17.03	-13.79	-6.97	-2.39	-3.35	2.69	5.73	0.75	-8.95	-7.38	-9.23	-11.65	-19.86
180.00	-16.42	-13.08	-8.81	-3.49	-3.24	1.69	4.49	-2.06	-5.35	-8.18	-8.45	-11.44	-19.86
195.00	-17.49	-14.78	-8.72	-4.4	-2.55	2.79	4.5	-1.69	-9.53	-4.64	-8.84	-11.58	-19.86
210.00	-16.16	-18.36	-7.29	-4.55	-4.26	0.32	4.85	-2.25	-8.64	-7	-6.27	-12.3	-19.86
225.00	-15.32	-16.37	-7.52	-2.57	-4.83	0.63	4.42	-2.01	-7.9	-7.41	-7.08	-12.84	-19.86
240.00	-17.13	-12.81	-9.1	-2.7	-10.86	0.84	2.86	0.32	-8.87	-8.65	-7.94	-9.19	-19.86
255.00	-16.65	-12.9	-6.75	-4.36	-6.64	-0.98	2.85	-0.62	-14.5	-6.63	-8.4	-9.76	-19.86
270.00	-16.63	-12.71	-9.74	-5.73	-7.73	-2.57	1.31	-1.96	-13.59	-4.3	-9.95	-15.61	-19.86
285.00	-16.67	-13.11	-7.11	-7.27	-9.6	-0.94	3.15	1.71	-8.93	-8.68	-8.34	-18.72	-19.86



300.00	-16.68	-13.27	-9.92	-6.17	-8.26	0.9	1.46	-0.3	-15.03	-11.3	-7.5	-19.86	-19.86
315.00	-16.87	-10.61	-8.72	-4.32	-7.04	-0.38	2.3	0.21	-9.87	-8.85	-16.19	-19.02	-19.86
330.00	-17.94	-9.27	-3.52	-4.4	-8.95	-0.28	0.11	0.38	-13.38	-10.9	-16.88	-15.03	-19.86
345.00	-17.9	-8.9	-3.85	-5.74	-11.01	-3.2	3.26	-1.91	-4.98	-8.21	-8.93	-13.87	-19.86

Ant6													
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	-9.95	-14.3	-14.32	-7.86	-9.59	-2.38	4.91	2.09	-5.44	-9.02	-13.61	-14.32	-14.88
15.00	-9.79	-13.25	-15.31	-7.95	-5.66	-4.85	5.16	4.82	-8.64	-10.86	-8.7	-14.88	-14.88
30.00	-9.43	-13.68	-17.75	-9.37	-3.44	-3.89	7.15	4.52	-13.83	-6.08	-7.37	-11.97	-14.88
45.00	-9.72	-14.14	-11.59	-4.47	-5.78	-2.83	5.91	3.88	-17.62	-4.37	-9.99	-9.06	-14.88
60.00	-10.3	-14.68	-11.41	-4.52	-10.15	-0.6	6.14	3.93	-10.29	-7.55	-12.92	-6.76	-14.88
75.00	-10.15	-14.24	-9.92	-6.67	-10.72	-1.06	4.6	2.17	-21.29	-7.16	-13.04	-7.4	-14.88
90.00	-10.11	-15.02	-12.55	-5.59	-9.06	-1.92	2.17	-1.62	-10.12	-7.76	-17.18	-9.76	-14.88
105.00	-9.87	-15.98	-14.19	-11.75	-8.4	-3.24	3.3	-0.88	-12.69	-6.77	-6.22	-10.62	-14.88
120.00	-9.86	-15.18	-12.77	-8.3	-8.07	-2.26	4.68	-0.45	-8.6	-9.63	-15.19	-12.33	-14.88
135.00	-9.98	-13.95	-10.87	-8.73	-8.81	-0.01	5.68	0.11	-9.33	-11.57	-9.87	-13.4	-14.88
150.00	-9.85	-14.18	-5.74	-8.04	-8.8	1.05	3.89	-5.05	-13.92	-8.02	-11.41	-12.37	-14.88
165.00	-10.48	-13.25	-3.18	-5.44	-6.93	-0.03	0.85	-2.23	-5.84	-11.72	-11.92	-10.52	-14.88
180.00	-11.11	-11.6	-4.07	-4.74	-14.86	1.42	0.1	-1.72	-4.9	-10.8	-12.48	-11.44	-14.88
195.00	-10.69	-10.14	-4.4	-4.99	-9.95	0.53	3.83	-2.62	-6.84	-8.13	-9.93	-11.18	-14.88
210.00	-10.85	-8.96	-5.68	-11.11	-7.66	1.5	4.97	0.36	-7.32	-12.51	-9.08	-8.19	-14.88
225.00	-10.71	-8.31	-6.67	-2.84	-7.6	0.45	5.19	1.05	-13.19	-10.49	-10.55	-6.95	-14.88
240.00	-10.19	-8.33	-6.48	-7.28	-13.43	-0.82	4.52	0.58	-10.83	-9.13	-9.7	-8.68	-14.88
255.00	-10.56	-9.05	-6.59	-6.15	-7.49	-1.24	5.66	0.22	-10	-7.44	-8.96	-10.76	-14.88
270.00	-10.92	-11.6	-10.44	-15.91	-5.42	-1.99	5.38	2.04	-14.15	-5.9	-16.85	-9.97	-14.88
285.00	-10.59	-17.86	-11.66	-5.22	-9.04	1.23	6.25	3.13	-12.09	-6.93	-16.29	-10.63	-14.88
300.00	-10.33	-13.81	-8.45	-9.34	-10.72	1.73	5.55	2.97	-12.74	-6.14	-13.93	-10.92	-14.88
315.00	-10.41	-11.38	-10.51	-6.22	-4.4	-0.52	6.97	2.87	-15.38	-4.18	-12.48	-7.21	-14.88
330.00	-10.68	-12.32	-10.9	-12.32	-6.84	-3.61	7.38	4.23	-12.38	-3.66	-10.34	-7.04	-14.88
345.00	-10.22	-14.69	-11.94	-9.94	-6.3	-1.08	5.75	3.11	-17.4	-5.84	-12.34	-9.51	-14.88

5300MHz Composite Gain (1SS)													
Freq	5300.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-10.19	-8.84	-6.36	-3.48	-9.83	1.84	5.92	3.79	-2.17	-7.39	-6.64	-10.40	-14.01
15.00	-9.84	-9.14	-7.43	-3.75	-6.90	0.84	5.48	4.92	-7.14	-8.12	-4.98	-11.04	-14.01
30.00	-9.62	-10.63	-9.34	-4.67	-3.11	2.11	7.48	5.19	-10.04	-7.38	-6.45	-9.42	-14.01
45.00	-9.65	-12.49	-7.54	-2.38	-4.90	1.63	7.04	5.26	-14.31	-3.96	-6.61	-7.46	-14.01
60.00	-10.35	-12.13	-6.72	-1.35	-5.86	2.26	7.46	4.99	-8.07	-6.30	-8.29	-6.56	-14.01
75.00	-10.32	-9.57	-7.35	-3.47	-5.33	2.57	6.78	3.87	-10.08	-5.74	-5.98	-7.56	-14.01
90.00	-10.22	-9.68	-8.03	-1.38	-6.61	2.00	4.86	1.95	-8.53	-4.84	-10.71	-8.08	-14.01

105.00	-10.18	-10.67	-8.58	-4.04	-5.17	1.15	6.05	1.27	-13.51	-5.54	-6.67	-7.06	-14.01
120.00	-9.74	-13.97	-6.26	-2.59	-2.47	1.86	6.80	2.99	-4.15	-5.73	-6.63	-8.05	-14.01
135.00	-9.30	-13.80	-4.92	-2.57	-3.87	4.18	8.39	2.80	-6.72	-6.68	-5.33	-8.85	-14.01
150.00	-9.78	-12.22	-2.85	-2.46	-5.24	3.31	7.38	-2.36	-5.60	-3.53	-7.44	-8.50	-14.01
165.00	-10.14	-10.51	-1.86	-0.77	-1.95	4.45	6.64	2.40	-4.25	-6.27	-7.46	-8.06	-14.01
180.00	-10.36	-9.30	-3.11	-1.08	-4.23	4.57	5.58	1.12	-2.11	-6.38	-7.22	-8.43	-14.01
195.00	-10.43	-9.14	-3.28	-1.68	-2.47	4.74	7.18	0.87	-5.07	-3.20	-6.36	-8.37	-14.01
210.00	-10.10	-9.44	-3.44	-4.21	-2.78	3.94	7.92	2.16	-4.94	-6.31	-4.55	-6.99	-14.01
225.00	-9.70	-8.43	-4.07	0.31	-3.09	3.55	7.82	2.66	-7.14	-5.80	-5.63	-6.39	-14.01
240.00	-9.97	-7.27	-4.68	-1.68	-9.04	3.06	6.74	3.46	-6.78	-5.88	-5.77	-5.92	-14.01
255.00	-10.07	-7.75	-3.66	-2.20	-4.04	1.90	7.38	2.82	-8.95	-4.02	-5.67	-7.24	-14.01
270.00	-10.30	-9.13	-7.07	-6.40	-3.49	0.74	6.59	3.28	-10.86	-2.05	-9.72	-9.33	-14.01
285.00	-10.10	-12.15	-6.08	-3.17	-6.31	3.22	7.85	5.46	-7.36	-4.75	-8.43	-10.76	-14.01
300.00	-9.93	-10.53	-6.14	-4.60	-6.39	4.34	6.75	4.50	-10.80	-5.33	-7.12	-11.28	-14.01
315.00	-10.04	-7.98	-6.56	-2.21	-2.61	2.56	7.96	4.65	-9.18	-3.19	-11.13	-8.24	-14.01
330.00	-10.56	-7.65	-3.44	-4.48	-4.82	1.22	7.49	5.53	-9.86	-3.54	-10.00	-7.14	-14.01
345.00	-10.23	-8.31	-3.98	-4.58	-5.33	0.93	7.60	3.97	-6.13	-3.93	-7.46	-8.41	-14.01

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	-12.39	-11.59	-8.61	-6.40	-12.03	-1.09	3.19	0.89	-5.18	-10.27	-9.10	-13.37	-16.69
15.00	-12.14	-12.09	-9.71	-6.69	-8.45	-1.88	3.01	2.55	-9.99	-11.13	-7.97	-14.01	-16.69
30.00	-11.84	-13.64	-11.51	-7.54	-5.59	-0.55	5.00	2.58	-13.02	-8.89	-9.15	-12.42	-16.69
45.00	-12.01	-15.38	-10.49	-5.34	-7.58	-1.27	4.27	2.43	-17.32	-6.47	-9.61	-10.34	-16.69
60.00	-12.65	-15.12	-9.60	-4.36	-8.79	-0.75	4.64	2.25	-11.04	-9.09	-11.17	-8.98	-16.69
75.00	-12.55	-12.45	-10.35	-6.48	-8.09	-0.42	3.81	0.97	-11.71	-8.58	-8.43	-9.80	-16.69
90.00	-12.48	-12.46	-10.93	-4.32	-9.60	-0.97	1.86	-1.05	-11.40	-7.85	-13.28	-10.98	-16.69
105.00	-12.34	-13.46	-11.31	-6.35	-8.18	-1.77	3.05	-1.69	-15.36	-8.33	-8.75	-10.05	-16.69
120.00	-12.12	-16.76	-8.82	-5.31	-5.20	-1.08	3.84	-0.01	-7.06	-8.70	-8.77	-10.99	-16.69
135.00	-11.92	-16.20	-7.59	-5.20	-6.71	1.23	5.39	-0.20	-9.72	-9.52	-8.23	-11.75	-16.69
150.00	-12.14	-15.16	-5.86	-5.19	-8.23	0.34	4.39	-5.37	-7.79	-6.44	-10.40	-11.47	-16.69
165.00	-12.62	-13.51	-4.67	-3.65	-4.78	1.54	3.94	-0.49	-7.12	-9.03	-10.37	-11.05	-16.69
180.00	-13.00	-12.28	-5.82	-4.07	-5.96	1.56	2.83	-1.89	-5.12	-9.30	-10.01	-11.44	-16.69
195.00	-12.88	-11.87	-6.04	-4.68	-4.83	1.81	4.18	-2.13	-7.98	-6.04	-9.35	-11.38	-16.69
210.00	-12.74	-11.50	-6.41	-6.69	-5.64	0.95	4.91	-0.75	-7.93	-8.93	-7.45	-9.78	-16.69
225.00	-12.43	-10.69	-7.07	-2.70	-6.00	0.54	4.82	-0.22	-9.78	-8.68	-8.48	-8.96	-16.69
240.00	-12.40	-10.02	-7.60	-4.41	-11.96	0.09	3.77	0.45	-9.74	-8.88	-8.73	-8.93	-16.69
255.00	-12.61	-10.56	-6.67	-5.16	-7.04	-1.11	4.48	-0.18	-11.69	-7.02	-8.67	-10.23	-16.69
270.00	-12.90	-12.12	-10.08	-8.34	-6.42	-2.27	3.81	0.49	-13.86	-5.03	-12.15	-11.93	-16.69
285.00	-12.64	-14.87	-8.81	-6.13	-9.31	0.28	4.97	2.48	-10.23	-7.72	-10.70	-13.01	-16.69
300.00	-12.44	-13.53	-9.12	-7.47	-9.32	1.33	3.97	1.64	-13.74	-7.99	-9.62	-13.41	-16.69
315.00	-12.54	-10.98	-9.52	-5.17	-5.52	-0.45	5.23	1.74	-11.80	-5.92	-13.95	-9.94	-16.69

330.00	-12.94	-10.53	-5.80	-6.76	-7.77	-1.63	5.12	2.72	-12.85	-5.92	-12.48	-9.41	-16.69
345.00	-12.55	-10.89	-6.23	-7.35	-8.05	-2.01	4.68	1.29	-7.75	-6.87	-10.31	-11.16	-16.69

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	-15.49	-10	-13.77	-13.03	-8.29	0.1	1.86	-3.98	-4.46	-12.37	-5.82	-9.79	-21.19
15.00	-15.42	-7.96	-16.77	-14.37	-11.07	0.86	-1.84	-2.71	-7.36	-25.21	-9.74	-14.81	-21.19
30.00	-14.74	-6.2	-10.87	-12.42	-7.83	-0.68	1.42	-5.67	-11.95	-9.32	-13.16	-11.18	-21.19
45.00	-14.73	-6.74	-10.55	-14.04	-8.51	-0.35	2.05	-2.7	-12.09	-10.76	-10.27	-10.27	-21.19
60.00	-14.91	-8.5	-9.37	-14.11	-9.94	-0.24	2.01	-2.94	-18.73	-10.2	-11.64	-13.04	-21.19
75.00	-15.65	-9.84	-7.95	-12.19	-8.89	0.58	0.33	-8.02	-8.4	-8.46	-7.64	-9.47	-21.19
90.00	-15.3	-13.77	-7.07	-16.77	-9.34	-1.37	1.19	-5.65	-11.06	-13.8	-12.71	-9.07	-21.19
105.00	-15.67	-13.25	-4.46	-13.78	-7.04	0.22	1.59	-2.57	-19.03	-10.72	-7.02	-10.56	-21.19
120.00	-16.96	-10.67	-7.27	-5.62	-7.32	0.84	0.86	-0.08	-4.17	-6.81	-7.34	-10.27	-21.19
135.00	-15.98	-10.48	-7.1	-7.36	-6.78	1.41	3.02	-4.31	-4.13	-7.78	-7.96	-12.39	-21.19
150.00	-15.75	-11.48	-7.14	-5.17	-4.8	1.51	2.61	-4.23	-6.28	-8.8	-11.34	-14.96	-21.19
165.00	-16.27	-12.33	-4.29	-5.1	-12.83	3.61	4.22	-2.38	-3.19	-8.02	-11.25	-20.22	-21.19
180.00	-15.67	-11.98	-4.69	-5.27	-12.28	2.95	3.76	-5.62	-3.17	-8.29	-10.36	-21.19	-21.19
195.00	-15.85	-10.47	-3.53	-4.71	-8.64	3.74	4.56	-4.1	-4.98	-6.62	-17.62	-14.97	-21.19
210.00	-17.24	-8.29	-3.88	-7.16	-6.11	3.12	4	-3.28	-3.69	-11.32	-9.71	-14.2	-21.19
225.00	-16.76	-8.13	-8.71	-20.5	-7.69	1.62	3.85	-6.61	-2.78	-8.73	-14.77	-13.85	-21.19
240.00	-15.81	-10.53	-8.73	-10.36	-6.33	0.93	0.96	-2.59	-5.09	-7.21	-10.14	-8.13	-21.19
255.00	-15.81	-13.22	-8.26	-11.19	-5.86	-0.63	3.17	-0.19	-9.93	-8.22	-11.19	-8.7	-21.19
270.00	-15.88	-17.11	-9.14	-7.99	-8.74	0.63	2.21	-1.9	-5.87	-7.35	-13.06	-14.3	-21.19
285.00	-15.6	-10.64	-11.21	-7.84	-7	-1.35	2.17	-4.69	-9.61	-6.96	-14.72	-10.48	-21.19
300.00	-14.9	-7.17	-6.69	-10.26	-6.96	-0.49	1.54	-3.96	-7.53	-13.58	-12.45	-11.7	-21.19
315.00	-15.3	-7.41	-9.86	-15.46	-6.44	0.5	3.73	-1.85	-6.27	-17.58	-20.24	-15.07	-21.19
330.00	-14.96	-9	-11.12	-11.35	-6.35	-2.73	0.6	-3.55	-7.88	-8.5	-17.21	-11.59	-21.19
345.00	-15.25	-10.64	-9.11	-17.68	-19.38	-0.82	3.07	-3.8	-5.21	-4.75	-7.24	-9.95	-21.19

Ant6													
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	-12.34	-14.73	-15.63	-13.64	-8.03	1.00	6.66	-0.47	-6.56	-12.83	-10.50	-14.63	-16.94
15.00	-12.43	-14.24	-16.33	-7.79	-10.00	0.49	7.23	0.82	-9.87	-10.27	-7.70	-16.88	-16.94
30.00	-12.55	-14.18	-9.26	-14.00	-8.45	-1.36	6.15	0.30	-20.39	-10.50	-9.12	-11.02	-16.94
45.00	-12.32	-12.43	-8.01	-8.52	-4.17	-1.41	4.60	-1.25	-15.17	-5.34	-11.09	-7.88	-16.94
60.00	-12.82	-10.82	-8.53	-5.90	-6.91	0.12	4.07	-0.95	-5.54	-6.93	-13.32	-6.78	-16.94
75.00	-12.74	-11.05	-8.43	-8.08	-12.26	2.38	6.27	0.61	-10.81	-10.08	-19.38	-7.43	-16.94
90.00	-12.41	-11.76	-7.64	-6.48	-12.08	1.96	5.60	-5.83	-8.51	-8.78	-16.40	-8.33	-16.94
105.00	-12.59	-12.09	-11.42	-9.45	-8.87	-0.24	3.75	-3.22	-11.59	-9.07	-7.08	-9.39	-16.94
120.00	-12.96	-16.95	-10.38	-6.85	-11.38	-0.14	4.03	-8.47	-5.56	-10.02	-9.67	-12.78	-16.94

135.00	-13.03	-19.92	-14.32	-5.32	-11.21	1.43	4.73	-6.32	-12.45	-8.97	-9.83	-11.28	-16.94
150.00	-13.39	-13.56	-10.40	-10.15	-11.58	2.86	3.81	-8.85	-14.13	-9.86	-13.27	-8.64	-16.94
165.00	-13.51	-11.73	-5.07	-7.00	-6.20	2.04	0.77	-9.33	-11.18	-6.09	-10.20	-8.58	-16.94
180.00	-14.02	-10.99	-2.75	-5.24	-12.99	1.99	0.44	-2.05	-4.44	-10.78	-12.03	-10.85	-16.94
195.00	-13.65	-9.47	-3.77	-2.04	-10.35	3.55	3.78	-7.24	-7.69	-12.65	-10.61	-12.13	-16.94
210.00	-13.43	-8.42	-5.04	-4.62	-6.45	2.79	4.62	-4.20	-12.42	-11.14	-8.78	-10.55	-16.94
225.00	-13.86	-8.45	-5.76	-6.22	-5.99	3.51	5.10	-1.27	-10.80	-8.85	-9.11	-10.96	-16.94
240.00	-13.48	-9.01	-8.76	-6.31	-9.80	0.98	2.76	-10.03	-7.62	-8.15	-8.78	-16.94	-16.94
255.00	-13.67	-11.46	-7.75	-4.81	-9.36	1.19	4.71	-5.12	-7.55	-6.79	-7.17	-13.18	-16.94
270.00	-13.92	-12.42	-16.39	-7.50	-5.92	2.07	5.57	1.07	-6.39	-11.31	-10.42	-10.18	-16.94
285.00	-13.45	-10.40	-9.56	-5.22	-9.58	2.93	3.72	-0.95	-8.65	-14.93	-15.59	-9.47	-16.94
300.00	-12.98	-10.33	-10.81	-11.51	-8.86	-0.05	4.19	-6.08	-6.23	-12.27	-14.66	-8.14	-16.94
315.00	-13.01	-10.67	-8.56	-13.85	-19.95	0.56	5.75	-2.54	-9.40	-10.45	-13.76	-5.34	-16.94
330.00	-12.90	-12.61	-7.48	-9.30	-12.32	1.87	5.66	0.63	-9.96	-8.61	-12.68	-6.47	-16.94
345.00	-12.87	-15.73	-15.95	-15.86	-10.95	2.16	8.56	1.80	-9.06	-7.36	-15.18	-9.44	-16.94

5600MHz Composite Gain (1SS)													
Freq	5600.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-10.76	-9.04	-11.64	-10.32	-5.15	3.57	7.60	0.96	-2.44	-9.59	-4.84	-8.87	-15.80
15.00	-10.79	-7.53	-13.54	-7.46	-7.51	3.69	6.84	2.24	-5.51	-11.85	-5.65	-12.77	-15.80
30.00	-10.57	-6.29	-7.02	-10.16	-5.12	2.00	7.11	0.83	-12.17	-6.88	-7.90	-8.09	-15.80
45.00	-10.43	-6.12	-6.18	-7.84	-3.06	2.15	6.43	1.07	-10.48	-4.62	-7.66	-5.98	-15.80
60.00	-10.79	-6.57	-5.93	-6.06	-5.28	2.95	6.11	1.12	-6.83	-5.40	-9.43	-6.35	-15.80
75.00	-11.06	-7.41	-5.18	-6.88	-7.40	4.54	6.81	0.34	-6.51	-6.22	-8.65	-5.38	-15.80
90.00	-10.73	-9.70	-4.34	-7.17	-7.59	3.46	6.68	-2.73	-6.68	-7.92	-11.35	-5.68	-15.80
105.00	-10.98	-9.64	-4.25	-8.34	-4.90	3.00	5.75	0.12	-11.53	-6.85	-4.04	-6.95	-15.80
120.00	-11.72	-10.24	-5.68	-3.20	-6.10	3.37	5.60	-0.29	-1.83	-5.26	-5.42	-8.42	-15.80
135.00	-11.37	-10.97	-6.97	-3.27	-5.71	4.43	6.93	-2.25	-4.32	-5.34	-5.83	-8.81	-15.80
150.00	-11.48	-9.45	-5.61	-4.30	-4.53	5.22	6.24	-3.23	-6.34	-6.30	-9.24	-8.23	-15.80
165.00	-11.77	-9.01	-1.66	-2.99	-5.89	5.87	5.68	-2.17	-3.29	-3.99	-7.70	-9.57	-15.80
180.00	-11.80	-8.46	-0.66	-2.24	-9.62	5.49	5.27	-0.64	-0.77	-6.44	-8.14	-11.55	-15.80
195.00	-11.67	-6.95	-0.64	-0.26	-6.44	6.66	7.19	-2.52	-3.22	-6.11	-10.42	-10.42	-15.80
210.00	-12.12	-5.34	-1.43	-2.79	-3.27	5.97	7.33	-0.72	-3.99	-8.22	-6.22	-9.17	-15.80
225.00	-12.18	-5.28	-4.10	-7.70	-3.79	5.63	7.51	-0.53	-2.89	-5.78	-8.48	-9.28	-15.80
240.00	-11.56	-6.73	-5.73	-5.09	-4.88	3.97	4.92	-2.53	-3.25	-4.66	-6.42	-8.45	-15.80
255.00	-11.66	-9.29	-4.99	-4.42	-4.42	3.34	6.98	0.70	-5.65	-4.47	-5.94	-7.64	-15.80
270.00	-11.83	-11.44	-9.02	-4.73	-4.21	4.39	7.06	2.72	-3.12	-6.10	-8.63	-8.99	-15.80
285.00	-11.45	-7.51	-7.34	-3.42	-5.18	4.06	5.99	0.39	-6.11	-7.05	-12.13	-6.95	-15.80
300.00	-10.88	-5.60	-5.50	-7.85	-4.85	2.74	5.98	-1.95	-3.85	-9.89	-10.47	-6.73	-15.80
315.00	-11.07	-5.88	-6.18	-11.61	-7.79	3.54	7.81	0.82	-4.68	-10.29	-13.40	-5.90	-15.80
330.00	-10.86	-7.61	-6.10	-7.25	-5.82	2.88	6.50	1.80	-5.85	-5.54	-11.64	-5.65	-15.80
345.00	-10.97	-9.81	-8.86	-13.71	-11.17	3.81	9.25	2.45	-3.91	-2.95	-7.32	-6.68	-15.80

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	-13.64	-11.75	-14.60	-13.32	-8.16	0.57	4.89	-1.88	-5.38	-12.59	-7.56	-11.57	-18.56
15.00	-13.67	-10.05	-16.54	-9.94	-10.50	0.68	4.73	-0.60	-8.44	-13.14	-8.60	-15.72	-18.56
30.00	-13.51	-8.57	-9.99	-13.14	-8.13	-1.01	4.40	-1.73	-14.38	-9.87	-10.69	-11.10	-18.56
45.00	-13.36	-8.71	-9.10	-10.46	-5.82	-0.85	3.51	-1.91	-13.36	-7.25	-10.66	-8.91	-18.56
60.00	-13.74	-9.51	-8.93	-8.30	-8.17	-0.06	3.16	-1.83	-8.35	-8.26	-12.40	-8.87	-18.56
75.00	-13.96	-10.40	-8.18	-9.67	-10.26	1.57	4.25	-1.84	-9.44	-9.19	-10.37	-8.33	-18.56
90.00	-13.62	-12.65	-7.35	-9.10	-10.50	0.61	3.93	-5.74	-9.60	-10.60	-14.17	-8.68	-18.56
105.00	-13.86	-12.63	-6.67	-11.10	-7.86	0.00	2.80	-2.88	-13.88	-9.82	-7.05	-9.94	-18.56
120.00	-14.51	-12.76	-8.55	-6.19	-8.89	0.38	2.73	-2.50	-4.81	-8.12	-8.35	-11.35	-18.56
135.00	-14.26	-13.02	-9.36	-6.22	-8.45	1.42	3.96	-5.20	-6.54	-8.33	-8.80	-11.80	-18.56
150.00	-14.41	-12.40	-8.47	-6.98	-6.98	2.24	3.25	-5.95	-8.63	-9.30	-12.20	-10.74	-18.56
165.00	-14.67	-12.02	-4.66	-5.95	-8.36	2.90	2.83	-4.59	-5.56	-6.95	-10.69	-11.30	-18.56
180.00	-14.77	-11.46	-3.61	-5.25	-12.62	2.50	2.41	-3.48	-3.76	-9.36	-11.12	-13.48	-18.56
195.00	-14.61	-9.94	-3.65	-3.17	-9.41	3.65	4.19	-5.39	-6.13	-8.66	-12.83	-13.32	-18.56
210.00	-14.93	-8.35	-4.42	-5.71	-6.28	2.96	4.32	-3.72	-6.15	-11.23	-9.22	-12.00	-18.56
225.00	-15.07	-8.29	-6.99	-9.07	-6.76	2.67	4.52	-3.17	-5.15	-8.79	-11.08	-12.17	-18.56
240.00	-14.49	-9.70	-8.74	-7.88	-7.73	0.96	1.95	-4.88	-6.17	-7.65	-9.41	-10.60	-18.56
255.00	-14.61	-12.25	-8.00	-6.92	-7.27	0.37	4.01	-1.99	-8.58	-7.45	-8.73	-10.39	-18.56
270.00	-14.79	-14.16	-11.40	-7.74	-7.11	1.41	4.21	-0.17	-6.12	-8.89	-11.54	-11.77	-18.56
285.00	-14.39	-10.52	-10.31	-6.34	-8.10	1.30	3.01	-2.43	-9.10	-9.33	-15.13	-9.95	-18.56
300.00	-13.83	-8.47	-8.28	-10.84	-7.81	-0.26	3.06	-4.89	-6.83	-12.88	-13.42	-9.57	-18.56
315.00	-14.01	-8.74	-9.16	-14.58	-9.26	0.53	4.86	-2.18	-7.56	-12.69	-15.89	-7.91	-18.56
330.00	-13.81	-10.44	-8.93	-10.21	-8.38	0.15	3.83	-0.98	-8.80	-8.55	-14.38	-8.32	-18.56
345.00	-13.90	-12.48	-11.30	-16.68	-13.38	0.92	6.63	-0.15	-6.72	-5.86	-9.60	-9.69	-18.56

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	-15.46	-4.87	-8.05	-9.65	-3.66	1.04	2.82	-3.69	-3.64	-6.64	-3.84	-8.67	-15.36
15.00	-14.62	-4.33	-4.9	-12.13	-9.98	1.07	-0.62	-8.21	-3.81	-10.76	-7.22	-15.36	-15.36
30.00	-13.93	-4.46	-6.34	-7.79	-5.03	0.41	0.84	-9.73	-6.64	-5.63	-8.62	-10.23	-15.36
45.00	-13.42	-6.13	-4.23	-13.81	-5.24	-1.56	2.41	-4.63	-5.04	-10.56	-9.48	-9.5	-15.36
60.00	-13.24	-8.89	-4.25	-10.94	-6.05	0.3	2.26	-3.55	-5.67	-8.77	-11.79	-12.26	-15.36
75.00	-14.06	-8.4	-2.62	-6.12	-9.24	0.82	-0.36	-9.85	-3.67	-8.24	-7	-8.05	-15.36
90.00	-13.63	-7.5	-2.92	-8.81	-6.99	0.23	-1.86	-6.98	-11.81	-14.92	-9.19	-8.83	-15.36
105.00	-14.08	-6.92	-4.11	-6.9	-5.94	-0.78	-1.28	-5.22	-11.01	-12.46	-11.15	-10.45	-15.36
120.00	-13.57	-7.41	-4.01	-4.78	-4.78	3.36	-0.97	-2.96	-3.43	-10.54	-10.02	-9.66	-15.36
135.00	-13.21	-8.52	-2.89	-5.49	-5.72	2.24	0.32	-2.29	-2.27	-17.75	-7.27	-8.85	-15.36
150.00	-12.66	-8.9	-3.25	-2.98	-4.12	4.95	0.73	-3.11	-2.46	-19.31	-8.29	-8.57	-15.36

165.00	-13.59	-9.19	-3.13	-2.02	-11.2	4.87	3	-0.02	-0.76	-9.39	-19.43	-9.29	-15.36
180.00	-13.09	-9.96	-3.28	-1.22	-4.69	4.42	-0.37	-1.85	-3.61	-13.32	-9.67	-12.94	-15.36
195.00	-14.26	-10.26	-5.01	-4.54	-8.45	5.1	3.21	-1.84	-5.88	-18.19	-9.77	-11.75	-15.36
210.00	-14.23	-9.76	-2.04	-1.36	-9.41	2.65	1.64	-2.68	-4.24	-9.05	-10.9	-10.66	-15.36
225.00	-13.93	-7.31	-3.78	-6.26	-5.34	2.14	1.35	-4.08	-3.65	-14.3	-11.2	-10.37	-15.36
240.00	-13.72	-6.04	-5.64	-7.55	-5.65	1.1	-0.46	-3.83	-5.14	-8.43	-13.24	-6.6	-15.36
255.00	-14.75	-6.9	-7.78	-6.51	-5.63	2.27	0.85	-1.32	-6.61	-7.13	-11.88	-5.1	-15.36
270.00	-14.66	-8.38	-4.75	-9.8	-8.63	3.31	0.47	-2.89	-2.97	-7.98	-12.82	-8.43	-15.36
285.00	-14.83	-10.3	-5.26	-8.02	-6.2	0.24	1.78	-11.05	-5.85	-3.44	-10.29	-7.13	-15.36
300.00	-14.65	-6.98	-3.91	-4.83	-2.91	-1.57	1.02	-4.67	-3.9	-4.51	-9.04	-6.81	-15.36
315.00	-14.17	-5.27	-3.16	-7.02	-2.29	-0.48	3.58	-4.48	-4.04	-11.03	-16.42	-11.7	-15.36
330.00	-14.48	-4.76	-6.83	-8.85	-3.35	-1.1	1.45	-7.11	-4.21	-6.11	-12.49	-12.39	-15.36
345.00	-15.38	-5.13	-9.64	-9.57	-7.99	-1.12	3.17	-7.22	-6.89	-1.36	-5.07	-8.47	-15.36

Ant6													
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	-15.27	-18.65	-9.09	-5.47	-11.35	3.77	7.68	-1.24	-10.28	-10.16	-10.4	-13.01	-21.08
15.00	-14.67	-17.85	-9.17	-6.9	-8.93	1.03	5.26	-0.66	-9.9	-14.86	-8.88	-15.66	-21.08
30.00	-14.79	-16.94	-13.69	-6.3	-9.88	2.08	6.68	-1.35	-16.82	-8.33	-12.07	-15.34	-21.08
45.00	-14.97	-15.84	-17.81	-5.25	-8.7	1.63	5.01	-3.09	-7.24	-11.07	-11.76	-10.81	-21.08
60.00	-15.62	-14.94	-13.89	-4	-11.66	1.06	4.31	-2.08	-7.16	-9.24	-12.11	-9.14	-21.08
75.00	-15.23	-15.58	-10.19	-4.3	-14.67	2.74	5.36	-3.9	-7.04	-14.72	-18.93	-9.34	-21.08
90.00	-15.33	-15.18	-8.86	-10.59	-11.58	2.05	4.78	-8.16	-8.87	-14.13	-16.43	-11.7	-21.08
105.00	-15.22	-14.42	-13.4	-10.74	-9.61	1.56	3.76	-6.38	-7.97	-12.59	-9.5	-13	-21.08
120.00	-14.99	-14.85	-8.08	-13.44	-9.78	1.52	2.58	-11.46	-11.72	-13.97	-12.68	-18.29	-21.08
135.00	-14.71	-16.77	-15.19	-14.8	-8.2	2.85	4.36	-12.44	-14.64	-13.64	-14.86	-21.08	-21.08
150.00	-15.12	-18.22	-15.07	-8.96	-6.97	2.91	2.7	-14.19	-11.72	-17.42	-20.93	-16.79	-21.08
165.00	-15.5	-19.51	-10.36	-7.36	-6.29	3.42	0.81	-9.34	-17.55	-14.07	-14.33	-15.09	-21.08
180.00	-16.12	-19.34	-8.34	-5.15	-9.29	4.23	-0.28	-5.21	-11.67	-14.39	-16.77	-17.7	-21.08
195.00	-16.35	-16.3	-15.07	-6.21	-5.5	5.14	3.01	-13.37	-13.31	-12.82	-15.99	-15.38	-21.08
210.00	-16.27	-14.48	-13.71	-5.9	-5.31	3.37	4.4	-4.8	-13.11	-17.3	-10.82	-14.47	-21.08
225.00	-15.7	-14.27	-15.7	-6.86	-4.87	3.53	3.34	-4.75	-16.23	-11.93	-14.34	-16.93	-21.08
240.00	-15.79	-13.98	-11.31	-7.69	-5.71	2.98	1.92	-11.79	-10.37	-10.78	-12.83	-17.24	-21.08
255.00	-15.83	-13.47	-12.87	-11.7	-6.92	2.36	2.2	-9.8	-8.2	-12.51	-10.39	-13.59	-21.08
270.00	-16.04	-12.35	-15.47	-7.33	-7.95	2.93	2.55	-2.54	-7.72	-18.86	-11.1	-12.46	-21.08
285.00	-15.66	-11.82	-12.6	-11.7	-11.56	3.29	0.8	-7.44	-9.73	-15.2	-11.41	-12.43	-21.08
300.00	-16	-11.43	-18.39	-6.25	-19.64	3.8	4.49	-5.36	-9.26	-10.46	-10.99	-11.64	-21.08
315.00	-16.02	-13.9	-14.34	-6.35	-16.25	4.13	3.99	-2.64	-9.01	-10.83	-11.6	-10.93	-21.08
330.00	-16.38	-20.17	-18.5	-6.74	-14.42	4.01	6.01	-2.98	-9	-10.3	-11.77	-11.14	-21.08
345.00	-15.53	-22.76	-11.64	-6.97	-16.24	4.86	7.24	1.08	-13.7	-7.1	-13.65	-11.1	-21.08

5800MHz Composite Gain (1SS)

Freq	5800.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-12.35	-6.26	-5.54	-4.30	-3.67	5.52	8.60	0.63	-3.33	-5.21	-3.50	-7.56	-14.75
15.00	-11.63	-5.68	-3.76	-6.12	-6.43	4.06	5.82	-0.63	-3.32	-9.56	-5.00	-12.50	-14.75
30.00	-11.34	-5.62	-6.25	-4.00	-4.11	4.30	7.25	-1.56	-7.31	-3.87	-7.16	-9.40	-14.75
45.00	-11.15	-6.68	-5.59	-5.51	-3.79	3.19	6.82	-0.82	-3.06	-7.80	-7.54	-7.12	-14.75
60.00	-11.34	-8.39	-4.79	-3.78	-5.40	3.70	6.36	0.23	-3.37	-5.99	-8.94	-7.55	-14.75
75.00	-11.62	-8.26	-2.59	-2.15	-8.53	4.84	5.97	-3.36	-2.18	-7.88	-8.05	-5.66	-14.75
90.00	-11.43	-7.51	-2.38	-6.64	-5.97	4.20	5.09	-4.54	-7.21	-11.51	-9.07	-7.14	-14.75
105.00	-11.62	-6.87	-4.56	-5.60	-4.57	3.48	4.61	-2.77	-6.35	-9.51	-7.28	-8.62	-14.75
120.00	-11.24	-7.35	-2.80	-5.06	-3.91	5.50	4.00	-3.20	-3.61	-9.08	-8.24	-9.93	-14.75
135.00	-10.92	-8.69	-4.01	-5.94	-3.86	5.56	5.58	-2.95	-3.41	-12.44	-7.25	-9.96	-14.75
150.00	-10.79	-9.36	-4.28	-2.45	-2.42	7.00	4.78	-3.98	-2.90	-15.30	-9.48	-8.73	-14.75
165.00	-11.48	-9.89	-3.00	-1.28	-5.39	7.19	4.98	-0.48	-2.60	-8.41	-13.50	-8.70	-14.75
180.00	-11.46	-10.43	-2.44	0.05	-3.68	7.34	2.69	-0.36	-3.73	-10.83	-9.50	-11.99	-14.75
195.00	-12.23	-9.75	-5.65	-2.32	-3.84	8.13	6.12	-2.81	-5.81	-12.09	-9.32	-10.37	-14.75
210.00	-12.18	-8.79	-3.04	-0.33	-4.11	6.03	6.14	-0.67	-4.58	-9.22	-7.85	-9.35	-14.75
225.00	-11.76	-7.10	-4.83	-3.54	-2.09	5.87	5.41	-1.40	-4.83	-10.02	-9.62	-10.03	-14.75
240.00	-11.68	-6.12	-5.01	-4.61	-2.67	5.10	3.82	-3.92	-4.36	-6.52	-10.02	-7.37	-14.75
255.00	-12.26	-6.57	-6.95	-5.71	-3.24	5.33	4.56	-1.55	-4.36	-6.40	-8.09	-5.34	-14.75
270.00	-12.31	-7.13	-5.54	-5.47	-5.27	6.13	4.58	0.30	-2.01	-8.81	-8.91	-7.20	-14.75
285.00	-12.22	-8.02	-5.17	-6.66	-5.46	4.91	4.31	-6.05	-4.56	-4.46	-7.82	-6.37	-14.75
300.00	-12.29	-5.91	-5.42	-2.50	-4.74	4.53	5.94	-2.00	-3.16	-3.97	-6.95	-5.88	-14.75
315.00	-12.04	-5.54	-4.05	-3.67	-3.71	5.14	6.80	-0.50	-3.16	-7.92	-10.67	-8.30	-14.75
330.00	-12.37	-6.41	-7.83	-4.72	-4.22	4.84	7.04	-1.79	-3.27	-4.94	-9.11	-8.73	-14.75
345.00	-12.44	-7.07	-7.57	-5.16	-8.16	5.39	8.45	0.90	-6.63	-0.75	-5.33	-6.68	-14.75

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	-15.36	-7.70	-8.54	-7.08	-5.99	2.62	5.90	-2.29	-5.80	-8.05	-5.98	-10.32	-17.34
15.00	-14.64	-7.15	-6.53	-8.77	-9.42	1.05	3.25	-2.97	-5.86	-12.34	-7.97	-15.51	-17.34
30.00	-14.34	-7.23	-8.62	-6.98	-6.81	1.32	4.68	-3.77	-9.25	-6.77	-10.01	-12.07	-17.34
45.00	-14.13	-8.70	-7.05	-7.69	-6.63	0.32	3.90	-3.79	-6.00	-10.81	-10.47	-10.11	-17.34
60.00	-14.27	-10.94	-6.81	-6.21	-8.01	0.70	3.40	-2.75	-6.35	-9.00	-11.95	-10.43	-17.34
75.00	-14.61	-10.65	-4.93	-5.12	-11.16	1.89	3.38	-5.93	-5.04	-10.37	-9.74	-8.65	-17.34
90.00	-14.40	-9.83	-4.94	-9.61	-8.70	1.23	2.62	-7.53	-10.10	-14.51	-11.45	-10.03	-17.34
105.00	-14.61	-9.22	-6.64	-8.41	-7.40	0.55	1.93	-5.76	-9.23	-12.52	-10.25	-11.54	-17.34
120.00	-14.22	-9.70	-5.58	-7.24	-6.60	2.54	1.16	-5.40	-5.84	-11.92	-11.15	-12.11	-17.34
135.00	-13.90	-10.92	-5.65	-8.02	-6.79	2.56	2.79	-4.90	-5.04	-15.23	-9.58	-11.61	-17.34
150.00	-13.72	-11.43	-5.98	-5.01	-5.32	4.05	1.83	-5.79	-4.98	-18.26	-11.07	-10.97	-17.34
165.00	-14.44	-11.81	-5.39	-3.92	-8.09	4.21	2.04	-2.55	-3.68	-11.13	-16.17	-11.29	-17.34
180.00	-14.35	-12.50	-5.11	-2.75	-6.41	4.33	-0.32	-3.21	-5.99	-13.82	-11.91	-14.70	-17.34

195.00	-15.18	-12.31	-7.61	-5.30	-6.73	5.12	3.11	-4.56	-8.17	-14.72	-11.85	-13.20	-17.34
210.00	-15.13	-11.51	-4.76	-3.06	-6.89	3.02	3.24	-3.61	-6.72	-11.45	-10.86	-12.16	-17.34
225.00	-14.73	-9.52	-6.52	-6.55	-5.10	2.89	2.46	-4.40	-6.43	-12.96	-12.49	-12.51	-17.34
240.00	-14.63	-8.40	-7.61	-7.62	-5.68	2.14	0.89	-6.20	-7.01	-9.45	-13.03	-9.25	-17.34
255.00	-15.26	-9.05	-9.62	-8.37	-6.23	2.32	1.58	-3.75	-7.33	-9.04	-11.07	-7.54	-17.34
270.00	-15.30	-9.93	-7.41	-8.39	-8.28	3.12	1.63	-2.71	-4.73	-10.65	-11.88	-9.99	-17.34
285.00	-15.23	-10.99	-7.53	-9.48	-8.10	2.03	1.32	-8.88	-7.37	-6.17	-10.81	-9.02	-17.34
300.00	-15.27	-8.66	-6.77	-5.48	-5.83	1.90	3.09	-5.00	-5.80	-6.54	-9.91	-8.59	-17.34
315.00	-15.00	-7.72	-5.85	-6.67	-5.13	2.41	3.79	-3.46	-5.85	-10.93	-13.37	-11.30	-17.34
330.00	-15.33	-7.65	-9.55	-7.67	-6.03	2.17	4.30	-4.57	-5.98	-7.72	-12.12	-11.72	-17.34
345.00	-15.45	-8.07	-10.53	-8.08	-10.39	2.83	5.67	-1.33	-9.08	-3.34	-7.52	-9.59	-17.34

Ant2													
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	-13.44	-9.97	-14.23	-14.69	-8.96	-0.81	-7.9	-3.5	-7.4	-11.23	-10.18	-22.07	-22.07
15.00	-13.54	-9.69	-10	-13.7	-8.63	0.11	-3.52	-5.23	-9.23	-13.04	-14.82	-12.14	-22.07
30.00	-13.57	-10.26	-7.41	-9.55	-7.77	-3.94	0.04	-2.83	-9.84	-11.92	-9.25	-10.38	-22.07
45.00	-13.23	-10.89	-8.65	-9.9	-4.11	0.89	2.5	-0.12	-6.57	-6.62	-14.68	-9.63	-22.07
60.00	-13.18	-9.99	-6.68	-7.94	-7.24	-0.5	1.6	-0.67	-5.21	-5.87	-14.26	-9.02	-22.07
75.00	-13.77	-10.06	-5.99	-5.09	-11.27	-0.26	1.08	-3.68	-7.58	-8.51	-16.84	-13.36	-22.07
90.00	-14.25	-10.33	-6.1	-8.31	-19.78	0.32	3.57	-0.58	-7.13	-9.93	-12.52	-17.12	-22.07
105.00	-14.01	-11.62	-9.33	-4.53	-16.25	1.48	5.4	3.05	-3.82	-14.96	-16.12	-20.08	-22.07
120.00	-14.07	-10.96	-5.92	-7.91	-17.85	-1.11	4	0.46	-5.76	-8.47	-10.04	-15.58	-22.07
135.00	-13.7	-10.67	-7.4	-7.69	-15.81	0.51	1.08	-0.95	-12.39	-11.08	-11.05	-14.47	-22.07
150.00	-12.93	-9.95	-8.89	-5.1	-11.59	-1.17	4.77	2.88	-4.54	-11.96	-16.2	-15.45	-22.07
165.00	-13.17	-10.1	-8.77	-7.79	-22.41	0.05	2.35	1.77	-7.98	-12.45	-10.07	-19.71	-22.07
180.00	-12.7	-11.71	-8.49	-5.25	-15	0.13	4.16	2.97	-5.38	-8.22	-14.13	-12.31	-22.07
195.00	-12.16	-17.57	-8.18	-7.59	-13.34	-0.17	2.79	2.84	-3.38	-11.77	-10.7	-14.09	-22.07
210.00	-12.72	-26.95	-10.75	-13.09	-17.05	-6.25	0.48	0.86	-6.14	-13.25	-15.64	-19.88	-22.07
225.00	-12.77	-21.25	-13.22	-11.31	-13.12	-1.87	0.94	-1.69	-8.34	-9.51	-10.9	-11.65	-22.07
240.00	-12.27	-14.5	-11.35	-11.05	-12.75	-3.18	-3.95	-3.95	-8.36	-8.34	-10.28	-11.17	-22.07
255.00	-12.39	-10.18	-9.29	-15.05	-6.36	-5.79	0.66	0.67	-5.51	-7.04	-8.6	-12.76	-22.07
270.00	-12.12	-10.05	-13.94	-6.86	-4.78	-2.13	0.93	-1.67	-2.77	-3.85	-11.52	-12.38	-22.07
285.00	-11.85	-11.45	-12.64	-4.23	-5.44	-2.09	-2.75	-7.66	-8.78	-4.18	-12.27	-14.9	-22.07
300.00	-12.35	-10.36	-19.45	-3.66	-0.8	-3.21	0.26	-4.1	-8.87	-7.94	-11.45	-13.91	-22.07
315.00	-12.38	-9.73	-7.37	-1.94	-3.64	-1.93	2.01	-2.4	-8.23	-11.31	-8.65	-12.76	-22.07
330.00	-12.48	-9.56	-8.39	-6.01	-2.29	-5.7	0.44	-1.45	-1.16	-5.82	-13.52	-11.71	-22.07
345.00	-12.88	-9.41	-14.65	-9.82	-6.61	-6.88	-6.2	-4.83	-8.88	-7.55	-14.45	-12.88	-22.07

Ant4													
Freq	6175.00												
Phi\Theta	-11.87	-10.86	-6.27	-11.99	-7.69	-0.5	0.1	0.94	-4.77	-5.45	-10.48	-15.34	-17.58

0.00	-12.31	-11.5	-14.02	-11.82	-7.89	0.28	0.63	-1.07	-4.98	-7.57	-14.64	-8.87	-17.58
15.00	-12.88	-16.19	-8.23	-9.96	-15.3	-0.88	1.81	-0.62	-3.62	-4.2	-8.15	-6.38	-17.58
30.00	-13.48	-15.8	-7.54	-8.47	-17.25	-0.18	3.61	3.43	-1.48	-7.61	-8.25	-8.06	-17.58
45.00	-13.45	-10.47	-7.58	-9.97	-15.5	0.61	4.29	3.13	-1.54	-9.44	-12.28	-17.58	-17.58
60.00	-13.01	-8.49	-7.24	-2.53	-10.52	-1.55	4.27	2.41	-4.09	-10.3	-18.34	-16.73	-17.58
75.00	-12.18	-9.03	-9.61	-8.19	-9.06	1.7	5.36	4.32	-1.16	-11.99	-27.85	-12.91	-17.58
90.00	-11.96	-11.34	-13.32	-7.48	-16.59	-0.22	3.28	0.44	-7.08	-7.08	-12.77	-10.4	-17.58
105.00	-11.54	-12.97	-7.07	-5.89	-11.4	0.06	1.72	1.4	-2.24	-7.76	-11	-8.93	-17.58
120.00	-10.88	-13.86	-5.73	-3.15	-18.78	-1.62	3.62	3.08	-2.19	-7.8	-9.5	-6.1	-17.58
135.00	-11	-11.22	-8.46	-9.52	-8.16	-1.07	0.52	2.43	-1.5	-5.06	-4.27	-6.55	-17.58
150.00	-11.84	-8.06	-5.39	-5.91	-5.47	0.02	-0.11	-2.37	-3.17	-5.89	-7.17	-8.42	-17.58
165.00	-12.09	-5.76	-4.72	-12.54	-14.1	0.5	-4.39	1.02	-1.77	-10.31	-6.99	-7.69	-17.58
180.00	-12.31	-4.83	-8.85	-10.49	-5.11	-1.35	-7.51	-0.12	-3.67	-8.64	-13.15	-6.37	-17.58
195.00	-11.82	-5.58	-10.71	-13.87	-4.81	-0.97	-0.2	-1.72	-2.74	-7.77	-13.81	-6.09	-17.58
210.00	-10.81	-7.91	-11.6	-7.48	-10	-0.55	2.16	-0.03	-9.93	-5.74	-9.08	-8.88	-17.58
225.00	-10.54	-10.98	-10.36	-2.61	-2.17	-4.23	2.77	-0.06	-5.06	-10.78	-8.31	-12.47	-17.58
240.00	-11.4	-10.92	-7.3	-3.6	-1.93	-3.15	0.49	-4.55	-5.98	-5.47	-11.18	-10.32	-17.58
255.00	-11.78	-11.85	-10.8	-10.18	-1.08	-1.46	3.95	0.76	-6.47	-6.16	-9.43	-11.55	-17.58
270.00	-12.7	-15.54	-13.42	-4.56	-3.58	-2.83	3	-0.5	-7.11	-9.16	-5.41	-9.94	-17.58
285.00	-13.27	-18.1	-8.11	-3.82	-6.56	0.37	3	-1.54	-6.93	-4.43	-9.97	-12.75	-17.58
300.00	-13.35	-25.32	-9.81	-3.17	-3.14	-3	2.23	2.38	-2.1	-2.92	-9.78	-8.9	-17.58
315.00	-12.67	-22	-18.93	-7.11	-5.61	-2.74	-2.26	-0.62	-6.09	-6.94	-8.76	-7.79	-17.58
330.00	-12.45	-13.57	-7.26	-7.23	-13.69	-8.05	-4.82	-0.62	-5.43	-7.92	-12.86	-11.38	-17.58
345.00	-11.87	-10.86	-6.27	-11.99	-7.69	-0.5	0.1	0.94	-4.77	-5.45	-10.48	-15.34	-17.58

6175MHz Composite Gain (1SS)													
Freq	6175.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-9.61	-7.39	-6.36	-10.23	-5.29	2.36	0.00	2.01	-2.98	-4.86	-7.32	-15.06	-16.53
15.00	-9.89	-7.54	-8.77	-9.70	-5.24	3.21	1.81	0.11	-3.84	-6.87	-11.72	-7.34	-16.53
30.00	-10.21	-9.72	-4.80	-6.74	-7.73	0.73	3.98	1.36	-3.17	-4.22	-5.67	-5.14	-16.53
45.00	-10.34	-9.99	-5.07	-6.15	-5.39	3.38	6.08	4.85	-0.65	-4.09	-7.87	-5.80	-16.53
60.00	-10.30	-7.22	-4.11	-5.89	-7.41	3.08	6.06	4.45	-0.17	-4.46	-10.20	-9.28	-16.53
75.00	-10.37	-6.23	-3.58	-0.71	-7.88	2.13	5.83	2.90	-2.65	-6.35	-14.55	-11.87	-16.53
90.00	-10.14	-6.65	-4.67	-5.24	-9.85	4.05	7.52	5.22	-0.63	-7.89	-14.16	-11.75	-16.53
105.00	-9.91	-8.47	-8.09	-2.87	-13.41	3.68	7.41	4.85	-2.29	-7.15	-11.27	-10.95	-16.53
120.00	-9.70	-8.90	-3.47	-3.83	-11.03	2.50	5.94	3.95	-0.81	-5.10	-7.50	-8.62	-16.53
135.00	-9.17	-9.11	-3.51	-2.12	-14.16	2.52	5.45	4.31	-2.86	-6.28	-7.23	-6.30	-16.53
150.00	-8.90	-7.55	-5.66	-4.02	-6.70	1.89	5.91	5.67	0.12	-4.83	-5.32	-6.90	-16.53
165.00	-9.47	-6.01	-3.91	-3.79	-7.33	3.05	4.22	2.95	-2.24	-5.55	-5.49	-9.34	-16.53
180.00	-9.38	-5.22	-3.39	-5.14	-11.53	3.33	3.91	5.06	-0.38	-6.19	-6.84	-6.69	-16.53
195.00	-9.22	-6.04	-5.50	-5.91	-5.27	2.27	2.10	4.50	-0.51	-7.05	-8.83	-6.39	-16.53
210.00	-9.25	-7.88	-7.72	-10.46	-5.92	-0.20	3.16	2.68	-1.26	-7.07	-11.67	-7.48	-16.53

225.00	-8.72	-9.23	-9.36	-6.18	-8.41	1.83	4.58	2.19	-6.09	-4.41	-6.93	-7.14	-16.53
240.00	-8.35	-9.55	-7.83	-2.83	-2.93	-0.68	3.05	1.22	-3.54	-6.46	-6.23	-8.79	-16.53
255.00	-8.87	-7.53	-5.23	-4.55	-0.86	-1.36	3.59	1.46	-2.73	-3.21	-6.78	-8.44	-16.53
270.00	-8.94	-7.89	-9.22	-5.35	0.28	1.22	5.58	2.64	-1.41	-1.92	-7.40	-8.94	-16.53
285.00	-9.25	-10.25	-10.01	-1.38	-1.45	0.56	3.60	-0.35	-4.89	-3.31	-5.17	-9.06	-16.53
300.00	-9.79	-10.38	-9.04	-0.73	-0.20	1.77	4.75	0.28	-4.84	-3.00	-7.67	-10.30	-16.53
315.00	-9.84	-11.41	-5.49	0.48	-0.38	0.56	5.13	3.33	-1.62	-3.13	-6.19	-7.61	-16.53
330.00	-9.56	-10.71	-9.14	-3.53	-0.78	-1.08	2.20	1.99	-0.27	-3.35	-7.81	-6.52	-16.53
345.00	-9.65	-8.23	-7.18	-5.42	-6.44	-4.44	-2.47	0.54	-3.97	-4.72	-10.61	-9.09	-16.53

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	-12.58	-10.39	-8.64	-13.13	-8.28	-0.65	-2.27	-0.74	-5.89	-7.44	-10.33	-17.51	-19.27
15.00	-12.88	-10.50	-11.56	-12.66	-8.24	0.20	-0.97	-2.67	-6.60	-9.50	-14.73	-10.20	-19.27
30.00	-13.21	-12.28	-7.80	-9.75	-10.07	-2.15	1.01	-1.59	-5.70	-6.53	-8.67	-7.93	-19.27
45.00	-13.35	-12.69	-8.06	-9.13	-6.91	0.39	3.09	2.01	-3.32	-7.09	-10.37	-8.77	-19.27
60.00	-13.31	-10.22	-7.11	-8.84	-9.65	0.09	3.15	1.63	-3.00	-7.30	-13.16	-11.46	-19.27
75.00	-13.37	-9.20	-6.57	-3.62	-10.88	-0.86	2.96	0.36	-5.49	-9.31	-17.53	-14.73	-19.27
90.00	-13.09	-9.63	-7.51	-8.25	-11.72	1.06	4.56	2.53	-3.19	-10.84	-15.40	-14.52	-19.27
105.00	-12.87	-11.48	-10.88	-5.76	-16.42	0.71	4.47	1.94	-5.15	-9.43	-14.13	-12.97	-19.27
120.00	-12.62	-11.85	-6.46	-6.78	-13.52	-0.49	3.01	0.96	-3.65	-8.10	-10.49	-11.09	-19.27
135.00	-12.07	-11.98	-6.49	-4.85	-17.05	-0.43	2.53	1.52	-4.80	-9.14	-10.21	-8.52	-19.27
150.00	-11.86	-10.54	-8.67	-6.77	-9.54	-1.12	3.15	2.66	-2.76	-7.26	-7.01	-9.03	-19.27
165.00	-12.45	-8.96	-6.76	-6.75	-8.39	0.04	1.29	0.18	-4.94	-8.03	-8.38	-11.12	-19.27
180.00	-12.38	-7.79	-6.21	-7.52	-14.53	0.32	1.72	2.10	-3.21	-9.14	-9.23	-9.41	-19.27
195.00	-12.23	-7.62	-8.50	-8.80	-7.51	-0.72	0.17	1.61	-3.52	-9.93	-11.75	-8.70	-19.27
210.00	-12.25	-8.56	-10.73	-13.46	-7.57	-2.85	0.15	-0.24	-4.12	-9.70	-14.63	-8.92	-19.27
225.00	-11.68	-10.72	-12.33	-8.99	-11.29	-1.16	1.59	-0.78	-9.06	-7.23	-9.90	-10.05	-19.27
240.00	-11.32	-12.39	-10.83	-5.04	-4.82	-3.67	0.60	-1.58	-6.40	-9.39	-9.18	-11.77	-19.27
255.00	-11.87	-10.53	-8.18	-6.31	-3.60	-4.27	0.58	-1.20	-5.74	-6.18	-9.70	-11.37	-19.27
270.00	-11.95	-10.86	-12.09	-8.21	-2.55	-1.78	2.70	-0.29	-4.24	-4.85	-10.35	-11.95	-19.27
285.00	-12.25	-13.03	-13.01	-4.39	-4.41	-2.44	1.01	-2.75	-7.87	-5.99	-7.61	-11.75	-19.27
300.00	-12.79	-12.69	-10.81	-3.74	-2.79	-1.06	1.84	-2.63	-7.79	-5.84	-10.65	-13.29	-19.27
315.00	-12.84	-12.62	-8.42	-2.51	-3.38	-2.43	2.12	0.62	-4.16	-5.34	-9.18	-10.41	-19.27
330.00	-12.57	-12.33	-11.03	-6.53	-3.64	-3.97	-0.70	-1.02	-2.96	-6.34	-10.52	-9.32	-19.27
345.00	-12.66	-11.01	-9.54	-8.33	-8.84	-7.43	-5.46	-2.23	-6.82	-7.73	-13.58	-12.07	-19.27

Ant2													
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	-12.16	-13.57	-8.38	-12.16	-8.36	-0.08	-4.73	-4.74	-9.16	-11.27	-11.19	-15.12	-28.86
15.00	-12.38	-12.7	-9.24	-18.51	-11.44	-0.4	-3.76	-12.55	-10.35	-10.24	-11	-10.94	-28.86

30.00	-12.37	-9.94	-11.33	-13.24	-8.37	-5.05	-0.16	-3.28	-10.71	-16.31	-15.73	-10.39	-28.86
45.00	-12.34	-9.68	-6.42	-10.02	-9.86	0.64	-0.16	-1.85	-5.86	-12.97	-12.08	-9.36	-28.86
60.00	-11.97	-10.13	-7.59	-9.92	-8.99	0.66	2.02	-0.15	-5.96	-6.45	-15.71	-9.88	-28.86
75.00	-11.74	-9.14	-8.52	-11.81	-9.96	0.49	3.31	-2.22	-8.12	-7.12	-16.96	-13.34	-28.86
90.00	-12.59	-7.97	-8.68	-3.38	-11.11	0.78	2.42	-0.31	-9.19	-13.76	-14.33	-12.36	-28.86
105.00	-12.5	-8.23	-8.74	-10.22	-11.88	-1.72	1.58	1	-5.56	-9.32	-13.16	-11.45	-28.86
120.00	-13.1	-9.47	-11.67	-7.61	-13.11	0.88	2.65	0.1	-8.59	-7.21	-9.51	-12.4	-28.86
135.00	-12.98	-11.98	-7.79	-9.11	-13.33	-0.44	3.05	-0.07	-6.72	-5.88	-7.72	-12.04	-28.86
150.00	-12.92	-12.5	-6.59	-6.66	-9.08	2.66	2.18	0.23	-11.68	-16.29	-15.31	-12.6	-28.86
165.00	-12.32	-9.75	-8.44	-11.89	-10.02	-0.84	1.28	-1.23	-6.93	-7.74	-10.42	-17.51	-28.86
180.00	-12.71	-8.9	-7.8	-15.85	-11.05	0.31	1.36	-2.02	-5.39	-12.48	-16.72	-20.91	-28.86
195.00	-11.8	-11.31	-8.94	-8.29	-10.26	0.2	0.5	-1	-6.9	-12.43	-9.91	-11.92	-28.86
210.00	-11.89	-18.85	-11.5	-10.91	-6.63	-3	-2.27	0.04	-7.14	-14.65	-22.2	-13.62	-28.86
225.00	-11.88	-16.02	-14.77	-10.66	-10.64	-7.9	-0.83	-1.32	-11.14	-9.92	-12.45	-19.98	-28.86
240.00	-11.99	-17.7	-13.03	-8.61	-11.99	-3.57	-1.24	-2.99	-9.91	-12.64	-11.04	-11.73	-28.86
255.00	-12.2	-13.88	-15.64	-16.22	-6.19	-6.45	2.27	0.75	-5.18	-6.96	-12.96	-11.22	-28.86
270.00	-12.26	-9.49	-17.34	-13.48	-8.11	-4.71	-0.22	-2.15	-5.85	-5.87	-19.49	-15.41	-28.86
285.00	-11.7	-8.76	-10.99	-7.13	-5.9	-1.88	-1.22	-8.21	-12.23	-7.44	-16.22	-28.86	-28.86
300.00	-11.33	-9.83	-10.42	-8.4	-3.29	-2.49	-0.55	-3.68	-9.46	-10.35	-12.98	-18.66	-28.86
315.00	-11.38	-10.38	-5.83	-4.77	-4.13	-1.66	0.92	-2.87	-9.51	-15.08	-12.17	-16.59	-28.86
330.00	-11.2	-10.62	-6.23	-7.44	-3.39	-9.28	-1.29	-5.54	-4.35	-9.91	-26.17	-15.04	-28.86
345.00	-11.64	-12.19	-13.15	-14.62	-4.99	-5.77	-11.36	-3.23	-9.66	-15.07	-11.28	-20.23	-28.86

Ant4													
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	-13.37	-17.84	-16.45	-14.07	-8.71	-1.48	0.56	-1.25	-7.65	-9.49	-9.09	-9.34	-16.3
15.00	-14.36	-13.88	-14.19	-10.36	-9.41	-3.14	-0.97	-1.68	-8.22	-14.52	-8.55	-8.33	-16.3
30.00	-14.56	-10.56	-10.74	-8.37	-9.34	0.68	2.67	-0.97	-8.08	-10.15	-10.1	-10.75	-16.3
45.00	-13.84	-9.82	-8.59	-7.48	-9.92	0.14	3.02	1.65	-3.62	-8.46	-14.61	-16.3	-16.3
60.00	-13.75	-11.59	-5.65	-6	-9.74	3.57	5.37	3.74	-4.54	-11.99	-14.41	-12.9	-16.3
75.00	-12.94	-13.17	-3.79	-7.97	-9.34	2.24	3.02	0.11	-8.44	-11.44	-12.16	-9.9	-16.3
90.00	-13.04	-13.59	-7.47	-9.77	-9.45	2.12	5.58	4.35	-4.38	-14.23	-8.15	-8.77	-16.3
105.00	-14.17	-12.22	-7.86	-11.12	-9.93	2.08	2.06	-0.27	-9.64	-8.56	-9.08	-9.99	-16.3
120.00	-15.42	-10.58	-9.28	-4.59	-8.94	0.23	3.57	0.35	-5.81	-9.41	-10.71	-11.47	-16.3
135.00	-15.75	-10.23	-7.54	-10.52	-13.28	2.53	5.27	2.47	-4.56	-6.3	-8.85	-10.32	-16.3
150.00	-15.35	-11.07	-6.76	-6.32	-10.32	0.25	2.36	1.35	-2.45	-4.73	-6.23	-9.1	-16.3
165.00	-14.31	-12.94	-11.51	-8.95	-5.61	-0.79	-0.19	-2.06	-6.12	-9.84	-9.31	-12.73	-16.3
180.00	-13.27	-10.18	-7.39	-6.96	-6.8	0.08	-3.55	-2.36	-4.65	-13.3	-10.45	-13.07	-16.3
195.00	-12.58	-8.32	-9.78	-21.23	-7.95	-0.33	-3.21	-0.42	-5.42	-9.01	-16.55	-10.44	-16.3
210.00	-12.7	-6.81	-12.49	-11.12	-3.45	0.1	-1.19	-0.66	-4.87	-6.81	-14.51	-10.6	-16.3
225.00	-13.6	-6.16	-9.8	-10.33	-5.33	0.25	3.53	0.92	-8.72	-5.22	-14.97	-12.55	-16.3
240.00	-13.85	-6.27	-13.02	-5.66	-2.6	-0.94	1.07	-2.52	-7	-11.26	-10.78	-10.99	-16.3

255.00	-14.25	-7.53	-10.56	-5.58	-3.71	-3.2	0.66	-2.44	-11.81	-11.08	-12.12	-11	-16.3
270.00	-13.62	-9.48	-15.56	-5.93	-1.41	-0.71	3.34	0.9	-6.12	-8.52	-10.73	-13.16	-16.3
285.00	-12.71	-12.88	-13.98	-6.47	-3.64	-1.47	-1.24	-5.01	-8.16	-9.39	-7	-14.76	-16.3
300.00	-12.22	-13.56	-12.54	-3.45	-6.49	1.86	3.31	-0.61	-7.15	-6.6	-8.85	-12.19	-16.3
315.00	-12.34	-13	-15.12	-10.21	-0.01	-1.29	-1.23	0.68	-3.36	-5.39	-9.52	-9.47	-16.3
330.00	-12.66	-12.84	-10.76	-8.01	-6.35	-1.36	-1.08	-1.38	-4.28	-9.63	-11.05	-10.42	-16.3
345.00	-12.9	-14.82	-7.84	-12.62	-7.09	-1.79	-0.23	0.54	-6.55	-10.53	-9.07	-11.92	-16.3

6475MHz Composite Gain (1SS)													
Freq	6475.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-9.73	-12.43	-8.50	-10.05	-5.52	2.26	1.32	0.19	-5.36	-7.32	-7.07	-8.75	-17.47
15.00	-10.30	-10.26	-8.36	-10.50	-7.36	1.35	0.76	-2.50	-6.21	-9.11	-6.68	-6.53	-17.47
30.00	-10.39	-7.23	-8.02	-7.46	-5.83	1.29	4.38	0.96	-6.29	-9.68	-9.46	-7.56	-17.47
45.00	-10.05	-6.74	-4.43	-5.65	-6.88	3.40	4.59	3.09	-1.66	-7.42	-10.24	-9.14	-17.47
60.00	-9.80	-7.82	-3.56	-4.73	-6.35	5.25	6.87	5.02	-2.21	-5.78	-12.03	-8.25	-17.47
75.00	-9.31	-7.91	-2.83	-6.67	-6.63	4.42	6.18	2.03	-5.27	-6.00	-11.22	-8.44	-17.47
90.00	-9.80	-7.32	-5.04	-2.99	-7.23	4.49	7.15	5.34	-3.45	-10.98	-7.69	-7.37	-17.47
105.00	-10.28	-6.99	-5.28	-7.65	-7.84	3.40	4.83	3.40	-4.35	-5.92	-7.87	-7.68	-17.47
120.00	-11.17	-7.00	-7.38	-2.96	-7.77	3.57	6.13	3.24	-4.08	-5.23	-7.08	-8.91	-17.47
135.00	-11.24	-8.05	-4.65	-6.78	-10.29	4.18	7.24	4.30	-2.56	-3.08	-5.26	-8.13	-17.47
150.00	-11.04	-8.75	-3.66	-3.48	-6.67	4.55	5.28	3.82	-2.88	-5.70	-6.62	-7.66	-17.47
165.00	-10.25	-8.19	-6.83	-7.29	-4.53	2.20	3.59	1.38	-3.51	-5.72	-6.84	-11.78	-17.47
180.00	-9.98	-6.51	-4.58	-7.30	-5.66	3.21	2.26	0.82	-2.00	-9.87	-10.02	-13.12	-17.47
195.00	-9.17	-6.68	-6.34	-9.53	-6.02	2.95	1.85	2.31	-3.12	-7.54	-9.60	-8.14	-17.47
210.00	-9.28	-7.88	-8.97	-8.00	-1.88	1.70	1.30	2.71	-2.92	-6.86	-14.52	-8.97	-17.47
225.00	-9.69	-6.75	-8.92	-7.48	-4.58	0.11	4.63	2.88	-6.84	-4.25	-10.61	-12.48	-17.47
240.00	-9.86	-7.22	-10.01	-4.00	-3.07	0.85	3.00	0.26	-5.32	-8.91	-7.90	-8.34	-17.47
255.00	-10.15	-7.13	-9.72	-6.35	-1.85	-1.66	4.51	2.31	-4.87	-5.77	-9.52	-8.10	-17.47
270.00	-9.90	-6.47	-13.39	-5.90	-1.12	0.53	4.75	2.52	-2.97	-4.08	-11.04	-11.20	-17.47
285.00	-9.18	-7.57	-9.35	-3.78	-1.69	1.34	1.78	-3.45	-6.95	-5.35	-7.43	-16.21	-17.47
300.00	-8.75	-8.49	-8.41	-2.57	-1.73	2.96	4.60	1.00	-5.22	-5.26	-7.66	-11.83	-17.47
315.00	-8.84	-8.58	-6.28	-4.06	1.18	1.54	2.92	2.10	-2.89	-5.94	-7.73	-9.31	-17.47
330.00	-8.89	-8.65	-5.19	-4.71	-1.73	-1.44	1.83	-0.20	-1.30	-6.76	-12.66	-9.42	-17.47
345.00	-9.24	-10.40	-7.09	-10.55	-2.97	-0.54	-1.11	1.87	-4.96	-9.50	-7.09	-12.11	-17.47

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	-12.72	-15.20	-10.76	-13.01	-8.53	-0.72	-1.32	-2.65	-8.34	-10.29	-10.01	-11.33	-19.08
15.00	-13.26	-13.25	-11.04	-12.75	-10.31	-1.56	-2.14	-4.35	-9.16	-11.87	-9.60	-9.44	-19.08
30.00	-13.33	-10.24	-11.02	-10.16	-8.83	-1.30	1.48	-1.97	-9.20	-12.22	-12.06	-10.57	-19.08
45.00	-13.03	-9.75	-7.37	-8.57	-9.89	0.40	1.71	0.24	-4.60	-10.15	-13.16	-11.57	-19.08

60.00	-12.77	-10.80	-6.51	-7.53	-9.35	2.35	4.01	2.22	-5.19	-8.39	-15.01	-11.13	-19.08
75.00	-12.30	-10.70	-5.54	-9.48	-9.64	1.45	3.17	-0.90	-8.28	-8.76	-13.93	-11.29	-19.08
90.00	-12.81	-9.93	-8.03	-5.49	-10.20	1.50	4.28	2.62	-6.15	-13.99	-10.22	-10.20	-19.08
105.00	-13.26	-9.78	-8.28	-10.65	-10.80	0.58	1.83	0.41	-7.14	-8.92	-10.66	-10.66	-19.08
120.00	-14.11	-9.99	-10.31	-5.84	-10.54	0.57	3.13	0.23	-6.98	-8.17	-10.07	-11.91	-19.08
135.00	-14.15	-11.02	-7.66	-9.76	-13.30	1.29	4.30	1.38	-5.51	-6.08	-8.25	-11.10	-19.08
150.00	-13.97	-11.73	-6.67	-6.49	-9.66	1.62	2.27	0.83	-4.97	-7.45	-8.73	-10.51	-19.08
165.00	-13.20	-11.06	-9.71	-10.18	-7.28	-0.81	0.61	-1.63	-6.51	-8.66	-9.83	-14.49	-19.08
180.00	-12.98	-9.49	-7.59	-9.44	-8.42	0.20	-0.44	-2.19	-5.00	-12.87	-12.54	-15.42	-19.08
195.00	-12.17	-9.56	-9.34	-11.09	-8.95	-0.06	-0.97	-0.70	-6.10	-10.39	-12.07	-11.12	-19.08
210.00	-12.28	-9.56	-11.97	-11.01	-4.76	-1.18	-1.70	-0.30	-5.86	-9.16	-16.84	-11.85	-19.08
225.00	-12.66	-8.74	-11.61	-10.49	-7.22	-2.14	1.88	-0.06	-9.76	-6.96	-13.53	-14.84	-19.08
240.00	-12.82	-8.98	-13.02	-6.89	-5.14	-2.06	0.07	-2.75	-8.22	-11.90	-10.91	-11.34	-19.08
255.00	-13.11	-9.64	-12.40	-8.23	-4.78	-4.53	1.54	-0.56	-7.34	-8.55	-12.52	-11.11	-19.08
270.00	-12.89	-9.48	-16.36	-8.24	-3.58	-2.26	1.91	-0.36	-5.98	-7.00	-13.20	-14.14	-19.08
285.00	-12.18	-10.35	-12.23	-6.79	-4.62	-1.67	-1.23	-6.32	-9.73	-8.31	-9.52	-17.60	-19.08
300.00	-11.75	-11.31	-11.35	-5.25	-4.60	0.21	1.80	-1.88	-8.15	-8.08	-10.44	-14.32	-19.08
315.00	-11.83	-11.50	-8.36	-6.69	-1.60	-1.47	-0.02	-0.74	-5.43	-7.96	-10.65	-11.71	-19.08
330.00	-11.87	-11.59	-7.93	-7.72	-4.62	-3.72	-1.18	-2.98	-4.31	-9.77	-13.93	-12.14	-19.08
345.00	-12.22	-13.31	-9.73	-13.51	-5.91	-3.34	-2.92	-0.95	-7.83	-12.23	-10.04	-14.33	-19.08

Ant2													
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	-14.67	-12.73	-7.86	-14.93	-11.37	0.4	-4.2	-5.15	-19.41	-16.25	-9.41	-11.37	-25.39
15.00	-15.03	-10.19	-11.21	-23.1	-13.09	-0.5	-4.65	-14.3	-23.52	-11.65	-12.62	-9.37	-25.39
30.00	-15.08	-10.93	-7.28	-12.8	-7.41	-2.71	0.82	-3.68	-15.57	-16.51	-14.37	-9.79	-25.39
45.00	-16.34	-12.73	-5.46	-9.69	-7.79	2.57	2.05	-1.31	-12.32	-9.54	-11.4	-8.68	-25.39
60.00	-16.77	-10.68	-5.04	-7.06	-10.21	2.11	4.19	-0.79	-6.56	-5.59	-16.4	-9.52	-25.39
75.00	-16.34	-9.85	-6.79	-6.66	-15.76	1.5	2.03	-3.93	-8.26	-6.67	-22.43	-10.61	-25.39
90.00	-15.45	-9.53	-6.94	-4.49	-13.68	1.38	4.64	-0.92	-12.98	-11.2	-16.62	-10.47	-25.39
105.00	-15.44	-10.33	-9.63	-6.61	-16.13	0.79	3.62	1.29	-6.92	-7.82	-13.89	-10.18	-25.39
120.00	-14.57	-12.05	-8	-6.44	-12.91	1.07	2.44	-3.98	-16.91	-5.7	-10.65	-11.48	-25.39
135.00	-15.39	-14.01	-7.15	-7.53	-8.59	2.5	4.57	-0.48	-10.08	-4.68	-7.02	-14.17	-25.39
150.00	-15.47	-17.37	-9.02	-5.64	-13.4	0.6	3.35	-0.98	-7.67	-14.38	-11.38	-18.78	-25.39
165.00	-16.13	-18.39	-8.69	-7.48	-7.94	-1.04	1.34	-2.57	-13.15	-7.63	-12.2	-22.56	-25.39
180.00	-17.1	-12.47	-8.21	-8.65	-9.04	-0.29	1.8	-4.22	-8.35	-12.1	-13.83	-15.46	-25.39
195.00	-17.96	-11.01	-5.75	-12.15	-8.7	0.64	1.32	-2.18	-6.41	-16.93	-8.59	-12.75	-25.39
210.00	-17.81	-12.72	-8.24	-7.85	-8.84	0.21	0.41	-1.02	-7.79	-22.55	-13.63	-15.11	-25.39
225.00	-17.05	-13.91	-9.44	-7.72	-6.71	-5.8	-0.31	-2.26	-9.32	-12.37	-10.71	-18.33	-25.39
240.00	-15.84	-12.91	-14.58	-8.16	-13.05	-4.78	-0.52	-2.05	-12.55	-13.39	-11.53	-14.99	-25.39
255.00	-15.67	-10.77	-16.77	-15.18	-9.14	-3.82	2.21	0.07	-4.27	-7.53	-16.37	-17.91	-25.39
270.00	-16	-7.06	-12.15	-12.12	-9.48	-2.51	-0.8	-1.12	-4.19	-6.53	-16.74	-25.39	-25.39

285.00	-17.26	-6.06	-7.88	-6.6	-6.85	-0.27	-1.08	-7.97	-8.9	-8.36	-14.44	-21.01	-25.39
300.00	-18.95	-7.22	-7.54	-10.75	-2.97	-1.91	0.14	-4.62	-8.68	-13.48	-18.61	-24.08	-25.39
315.00	-18.52	-9.52	-4.99	-2.77	-3.77	-1.57	0.7	-3.14	-12.35	-14.35	-11.71	-23.69	-25.39
330.00	-17.27	-12.71	-5.62	-8.47	-1.62	-7.01	-1.31	-3.38	-6.48	-13.78	-17.8	-22.32	-25.39
345.00	-15.86	-15.08	-12	-9.12	-5.69	-5.06	-9.6	-4.53	-14.2	-17.16	-9.85	-16.7	-25.39

Ant4													
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	-13.38	-11	-15.26	-8.98	-8.82	-2.74	1.23	-1.31	-7.38	-12.35	-10.3	-10.46	-17.63
15.00	-13.38	-10.1	-7.73	-8.95	-9.92	1	-1.26	-4.43	-12.22	-11.65	-10.42	-11.69	-17.63
30.00	-13.17	-10.81	-4.9	-7.65	-8.76	2.42	2.11	-4.15	-11	-8.26	-15.09	-14.83	-17.63
45.00	-12.27	-11.08	-6.05	-6.5	-7.35	-0.19	3.86	0.65	-5.56	-10.66	-11.39	-16.89	-17.63
60.00	-12.18	-10.7	-5.4	-4.4	-10.79	3.02	3.88	-0.1	-5.26	-10.16	-15.31	-14.16	-17.63
75.00	-12.52	-10.84	-4.83	-6.17	-12.47	1.13	0.65	-0.67	-9.1	-15.81	-11.26	-10.55	-17.63
90.00	-13.51	-11.16	-5.97	-5.06	-7.32	1.54	4.74	2.69	-4.33	-8.76	-7.72	-7.4	-17.63
105.00	-14.33	-14.82	-5.58	-6.92	-9.94	1.37	1.8	-1.51	-10.78	-8.88	-8.83	-8.54	-17.63
120.00	-14.95	-17.43	-5.02	-4.79	-12.55	0.88	2.44	-1.16	-11.18	-12.68	-8.17	-9.72	-17.63
135.00	-14.51	-12.82	-5.78	-11.51	-8.45	2.36	4.38	1.92	-4.59	-9.5	-12.69	-11.93	-17.63
150.00	-13.85	-10.72	-4.28	-5.62	-14.23	0.61	0.16	-1.51	-4.71	-7.21	-9.44	-12.53	-17.63
165.00	-12.34	-11.42	-7.12	-12.67	-7.61	-0.99	-0.53	-2.34	-6.67	-10.57	-13.21	-12.91	-17.63
180.00	-11.99	-13.68	-10.09	-10.87	-5.25	-0.85	-3.92	-2.51	-5.5	-12.3	-14.43	-12.64	-17.63
195.00	-11.77	-11.11	-8.18	-18.17	-6.5	-0.24	-3.6	-1.97	-6.72	-10.81	-16.35	-12.39	-17.63
210.00	-12.29	-8.71	-14.09	-14.89	-3.59	-0.39	-2.67	-2.11	-6.62	-6.78	-15.03	-12.45	-17.63
225.00	-12.6	-9.04	-9.97	-9.15	-5.25	1.02	2.86	0.43	-8.82	-5.61	-15.09	-17.63	-17.63
240.00	-13.15	-10.56	-8.71	-10.82	-3.84	-0.13	-1.67	-7.87	-9.12	-13.19	-14.23	-16.74	-17.63
255.00	-12.3	-12.45	-9.89	-6.17	-3.73	-3.5	0.1	-2.99	-11.38	-10	-14.3	-13.91	-17.63
270.00	-11.9	-14.19	-13.7	-10.14	-4.63	-0.12	1.91	0.7	-6.12	-11	-12.51	-12.5	-17.63
285.00	-11.22	-12.86	-12.8	-10.48	-6.41	-1.31	-3.26	-9.96	-11.32	-10.77	-8.29	-14.06	-17.63
300.00	-11.24	-11.53	-15.45	-6.56	-6.1	0.72	2.35	-1.93	-7.18	-6.21	-10.42	-12.87	-17.63
315.00	-11.04	-12.27	-13.73	-10.17	-2.39	0.25	-0.97	-1.55	-5.26	-6.66	-10.49	-11.48	-17.63
330.00	-11.69	-13.35	-9.32	-12.17	-5.68	-0.15	-3.56	-1.43	-6.66	-10.84	-8.66	-11.35	-17.63
345.00	-12.48	-13.14	-10.56	-16.04	-9.56	-1.27	-2.1	-0.84	-6.67	-10.85	-9.07	-10.3	-17.63

6725MHz Composite Gain (1SS)													
Freq	6725.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-10.99	-8.81	-7.78	-8.44	-6.99	1.98	1.94	-0.01	-8.45	-11.07	-6.83	-7.89	-17.66
15.00	-11.16	-7.13	-6.29	-10.40	-8.35	3.29	0.22	-5.02	-13.14	-8.64	-8.44	-7.44	-17.66
30.00	-11.06	-7.86	-3.00	-6.84	-5.05	3.24	4.50	-0.90	-9.98	-8.43	-11.71	-8.94	-17.66
45.00	-11.06	-8.86	-2.74	-4.94	-4.56	4.31	6.01	2.74	-5.29	-7.07	-8.38	-8.84	-17.66
60.00	-11.16	-7.68	-2.21	-2.62	-7.48	5.59	7.05	2.57	-2.88	-4.57	-12.83	-8.52	-17.66
75.00	-11.21	-7.32	-2.74	-3.40	-10.95	4.33	4.38	0.86	-5.66	-7.08	-12.15	-7.57	-17.66

90.00	-11.42	-7.30	-3.43	-1.76	-6.92	4.47	7.70	4.08	-4.61	-6.88	-8.07	-5.79	-17.66
105.00	-11.86	-9.28	-4.36	-3.75	-9.48	4.10	5.77	3.01	-5.63	-5.32	-7.99	-6.31	-17.66
120.00	-11.75	-11.32	-3.37	-2.57	-9.72	3.99	5.45	0.55	-10.57	-5.50	-6.31	-7.55	-17.66
135.00	-11.93	-10.38	-3.43	-6.28	-5.51	5.44	7.49	3.81	-3.90	-3.75	-6.39	-9.97	-17.66
150.00	-11.61	-10.41	-3.32	-2.62	-10.79	3.62	4.91	1.77	-3.05	-7.06	-7.35	-12.09	-17.66
165.00	-11.02	-11.21	-4.86	-6.68	-4.76	2.00	3.47	0.56	-6.31	-5.97	-9.68	-13.45	-17.66
180.00	-11.16	-10.04	-6.09	-6.68	-3.93	2.44	2.41	-0.31	-3.80	-9.19	-11.11	-10.93	-17.66
195.00	-11.31	-8.05	-3.87	-11.64	-4.52	3.22	2.21	0.94	-3.55	-10.33	-8.62	-9.56	-17.66
210.00	-11.61	-7.48	-7.67	-7.67	-2.81	2.93	2.02	1.46	-4.18	-8.48	-11.29	-10.67	-17.66
225.00	-11.53	-8.13	-6.69	-5.40	-2.94	1.27	4.43	2.20	-6.06	-5.34	-9.62	-14.96	-17.66
240.00	-11.38	-8.65	-8.15	-6.38	-4.27	0.86	1.93	-1.47	-7.66	-10.28	-9.77	-12.81	-17.66
255.00	-10.81	-8.56	-9.66	-6.55	-3.01	-0.65	4.23	1.68	-4.11	-5.67	-12.26	-12.67	-17.66
270.00	-10.70	-6.90	-9.88	-8.06	-3.71	1.78	3.67	2.85	-2.09	-5.47	-11.36	-13.74	-17.66
285.00	-10.71	-5.80	-6.99	-5.31	-3.62	2.24	0.91	-5.90	-7.02	-6.47	-7.82	-13.85	-17.66
300.00	-11.26	-6.10	-7.61	-5.39	-1.38	2.51	4.33	-0.16	-4.89	-6.10	-10.57	-13.77	-17.66
315.00	-10.99	-7.78	-5.29	-2.69	-0.04	2.40	2.92	0.70	-5.09	-6.67	-8.07	-12.59	-17.66
330.00	-11.03	-10.01	-4.26	-7.11	-0.40	0.09	0.65	0.66	-3.56	-9.18	-9.07	-12.20	-17.66
345.00	-11.00	-11.05	-8.24	-8.90	-4.40	0.05	-2.05	0.52	-6.63	-10.43	-6.44	-9.91	-17.66

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	-13.98	-11.78	-10.14	-11.01	-9.91	-0.89	-0.69	-2.82	-10.13	-13.88	-9.83	-10.89	-19.97
15.00	-14.13	-10.14	-9.13	-11.80	-11.22	0.31	-2.63	-7.01	-14.92	-11.65	-11.38	-10.38	-19.97
30.00	-14.02	-10.87	-5.93	-9.50	-8.03	0.57	1.51	-3.91	-12.71	-10.66	-14.72	-11.62	-19.97
45.00	-13.84	-11.83	-5.74	-7.81	-7.56	1.41	3.05	-0.22	-7.74	-10.06	-11.39	-11.08	-19.97
60.00	-13.89	-10.69	-5.22	-5.53	-10.49	2.59	4.04	-0.43	-5.86	-7.30	-15.82	-11.25	-19.97
75.00	-14.02	-10.32	-5.70	-6.41	-13.81	1.32	1.39	-2.00	-8.66	-9.18	-13.95	-10.58	-19.97
90.00	-14.37	-10.27	-6.43	-4.77	-9.43	1.46	4.69	1.25	-6.78	-9.81	-10.20	-8.67	-19.97
105.00	-14.85	-12.02	-7.15	-6.76	-12.01	1.09	2.80	0.11	-8.43	-8.32	-10.66	-9.28	-19.97
120.00	-14.76	-13.96	-6.26	-5.54	-12.73	0.98	2.44	-2.35	-13.16	-7.92	-9.24	-10.51	-19.97
135.00	-14.93	-13.37	-6.41	-9.08	-8.52	2.43	4.48	0.88	-6.52	-6.45	-8.99	-12.91	-19.97
150.00	-14.58	-12.88	-6.03	-5.63	-13.80	0.61	2.04	-1.24	-5.94	-9.46	-10.30	-14.62	-19.97
165.00	-13.83	-13.64	-7.83	-9.34	-7.77	-1.01	0.50	-2.45	-8.80	-8.86	-12.68	-15.47	-19.97
180.00	-13.83	-13.03	-9.05	-9.62	-6.74	-0.56	-0.18	-3.28	-6.70	-12.20	-14.12	-13.83	-19.97
195.00	-13.84	-11.06	-6.80	-14.19	-7.46	0.22	-0.48	-2.07	-6.56	-12.87	-10.93	-12.57	-19.97
210.00	-14.23	-10.27	-10.25	-10.08	-5.47	-0.08	-0.86	-1.53	-7.17	-9.68	-14.27	-13.58	-19.97
225.00	-14.28	-10.83	-9.70	-8.38	-5.92	-1.17	1.56	-0.71	-9.06	-7.79	-12.37	-17.97	-19.97
240.00	-14.29	-11.58	-10.72	-9.29	-6.36	-1.86	-1.06	-4.05	-10.50	-13.29	-12.67	-15.78	-19.97
255.00	-13.67	-11.53	-12.09	-8.67	-5.64	-3.66	1.28	-1.20	-6.51	-8.59	-15.21	-15.46	-19.97
270.00	-13.48	-9.30	-12.86	-11.02	-6.41	-1.15	0.76	-0.12	-5.05	-8.21	-14.13	-15.29	-19.97
285.00	-13.27	-8.25	-9.68	-8.12	-6.62	-0.76	-2.03	-8.85	-9.94	-9.40	-10.36	-16.27	-19.97
300.00	-13.57	-8.86	-9.90	-8.17	-4.26	-0.40	1.38	-3.07	-7.87	-8.47	-12.82	-15.56	-19.97



315.00	-13.34	-10.68	-7.46	-5.05	-3.03	-0.57	-0.06	-2.27	-7.50	-8.99	-11.06	-14.24	-19.97
330.00	-13.64	-13.02	-7.09	-9.94	-3.19	-2.35	-2.29	-2.30	-6.57	-12.07	-11.17	-14.03	-19.97
345.00	-13.85	-14.00	-11.22	-11.33	-7.21	-2.76	-4.40	-2.30	-8.97	-12.95	-9.44	-12.41	-19.97

Ant2													
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	-14.79	-9.54	-8.77	-21.75	-5.57	0.42	-4.73	-7.23	-17.18	-15.6	-9.9	-15.8	-18.44
15.00	-13.63	-11.03	-8.08	-17.91	-6.3	-0.79	-3.15	-8.37	-17.73	-13.29	-11.63	-14.58	-18.44
30.00	-12.45	-12.5	-5.74	-14.24	-6.52	-1.14	0.23	-2.93	-10.34	-15.26	-10.12	-11.92	-18.44
45.00	-11.84	-9.82	-5.69	-18.19	-3.94	1.35	0.82	-4.29	-7.88	-10.77	-9.38	-11.69	-18.44
60.00	-13.13	-10.34	-4.77	-12.04	-7.03	1.11	3.93	-0.6	-7.63	-7.96	-10.31	-17	-18.44
75.00	-13.77	-13.45	-6.81	-7.78	-8.42	1.54	1.25	-3.64	-9.89	-7.31	-19.61	-13.86	-18.44
90.00	-14.84	-12.05	-3.63	-12.54	-9.08	1.82	2.71	-1.09	-17.6	-5.76	-9.85	-12.83	-18.44
105.00	-15.88	-11.47	-5.75	-5.61	-7.65	1.04	2.09	-1.6	-10.5	-4.76	-17.66	-12.08	-18.44
120.00	-14.3	-9.98	-10.02	-7.31	-11.01	-0.42	2.61	-3.7	-17.58	-8.63	-10.63	-13.42	-18.44
135.00	-12.96	-9.09	-7.92	-10.45	-7.76	1.72	3.84	-0.73	-16.19	-6.92	-7.68	-14.65	-18.44
150.00	-13.36	-9.09	-5.67	-12.17	-6.6	1.64	1.2	-1.61	-5.55	-7.48	-12.8	-18.44	-18.44
165.00	-12.94	-11.18	-9.08	-9.88	-12.37	1.44	1.63	-2.88	-16.52	-16.38	-14.51	-17.86	-18.44
180.00	-13.61	-15.18	-10.77	-9.85	-7.85	-1.1	1.68	-3.09	-10.27	-10.65	-11.54	-13.93	-18.44
195.00	-14.91	-14.87	-10.97	-13.75	-10.38	0.34	1.78	-3.78	-10.38	-11.06	-9.78	-12.73	-18.44
210.00	-15.17	-14.65	-6.94	-10.28	-12.52	-1.04	-2.13	-2.14	-10.67	-13.04	-9.23	-12.64	-18.44
225.00	-15.17	-17.51	-8.37	-12.45	-8.67	-2.85	-1.4	-1.48	-11.05	-11.37	-8.49	-12.98	-18.44
240.00	-14.65	-18.99	-12.12	-13.05	-12.08	-6.67	-2.2	-3.52	-9.71	-14.4	-9.99	-16.66	-18.44
255.00	-14.01	-17.49	-8.88	-13.13	-10.71	-2.65	-1.99	-0.7	-6.39	-13.46	-18.98	-13.6	-18.44
270.00	-13.57	-15.63	-12.61	-14.63	-5.42	1.55	0.96	-0.49	-3.6	-12.89	-15.51	-12.05	-18.44
285.00	-13.03	-13.12	-9	-11.82	-5.84	-1.13	-1.2	-8.85	-10.81	-16.84	-19.6	-15.34	-18.44
300.00	-13	-12.66	-7.61	-14.48	-6.74	-4.36	-1.56	-4.97	-11.31	-19.07	-26.57	-18.12	-18.44
315.00	-13.44	-12.49	-8.83	-4.59	-2	0.19	0.29	-2.47	-13.77	-11.44	-9.47	-15.9	-18.44
330.00	-14.35	-12.15	-8.41	-8.74	-4.29	-8.92	-2.79	-5.23	-7.5	-13.95	-12.96	-16.21	-18.44
345.00	-15.09	-10.64	-11.46	-12.18	-7.05	-2.59	-5.65	-5.72	-11.21	-14.92	-12.44	-15.5	-18.44

Ant4													
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	-10.73	-11.08	-9.96	-7.66	-6.63	2.33	1.8	-3.24	-9.54	-11.98	-8.72	-21.91	-25.25
15.00	-10.86	-11.17	-8.47	-8.19	-4.56	0.96	-0.49	-4.36	-13.09	-10.06	-11.52	-16.85	-25.25
30.00	-10.77	-12.22	-6.82	-6.14	-8.52	1.81	2.42	-2.29	-12.91	-4.97	-14.2	-19.91	-25.25
45.00	-11.01	-10.81	-5.56	-8.56	-8.92	2.29	4.35	-0.12	-8.06	-5.96	-12.32	-19.73	-25.25
60.00	-10.81	-8.62	-6.12	-7.84	-10.46	0.91	3.67	-0.97	-7.14	-7.87	-12.8	-14.79	-25.25
75.00	-10.77	-8.26	-6.03	-3.61	-9.25	1.35	2.94	-1.05	-10.24	-15.93	-8.61	-11.57	-25.25
90.00	-10.78	-7.84	-3.89	-3.1	-8.13	4	5.53	2.29	-5.85	-3.46	-6.34	-7.6	-25.25
105.00	-10.97	-8.26	-6.24	-7.68	-10.59	0.22	3.6	-2.05	-10.47	-10.16	-6.78	-8.26	-25.25

120.00	-11.27	-11.79	-6	-6.41	-8.75	4.09	4.02	-1.19	-10.39	-7.78	-9.01	-11.49	-25.25
135.00	-10.69	-12.44	-6.31	-11.16	-5.79	2.12	3.62	0.92	-4.33	-10.03	-10.26	-14.52	-25.25
150.00	-10.22	-10.11	-5.29	-10.48	-6.82	2.14	0.39	-4.61	-6	-8	-12.05	-14.69	-25.25
165.00	-9.55	-9.73	-4.95	-13.44	-7.15	0.95	-1.35	-4.79	-10.1	-9.42	-12.53	-16.46	-25.25
180.00	-9.25	-13.26	-8.84	-14.19	-5.98	-0.86	-3.16	-5.3	-7.36	-13.86	-12.08	-12.49	-25.25
195.00	-9.04	-17.7	-9.37	-16.04	-4.68	-0.65	-3.96	-4.34	-8.17	-12.12	-12.13	-12.73	-25.25
210.00	-9.58	-16.74	-10.29	-13.89	-5.98	-0.14	-0.26	-3.24	-11.15	-6.92	-11.97	-16.51	-25.25
225.00	-9.75	-15.95	-8.09	-8.56	-1.51	2.75	3.03	0.25	-6.76	-5.11	-14.98	-17.55	-25.25
240.00	-9.85	-17.96	-5.81	-12.12	-2.26	-1.27	-0.93	-7.9	-12.35	-12.93	-15.13	-13.78	-25.25
255.00	-9.46	-20.09	-8.1	-8.23	-3.95	-2.63	1.39	-4.37	-12.45	-10.26	-20.03	-14.72	-25.25
270.00	-9.22	-17.65	-8.41	-12.32	-2.56	2.2	2.25	0.35	-6.55	-11.24	-17.44	-14.08	-25.25
285.00	-8.97	-14.7	-10.75	-9.79	-4.66	-4.81	0.19	-8.21	-13.43	-14.16	-15.01	-15.59	-25.25
300.00	-9.23	-12.27	-10.29	-10.62	-4.28	2.21	2.75	-3.44	-7.61	-7.48	-15.21	-17.5	-25.25
315.00	-10.01	-12.55	-9.89	-17.94	-9.94	1.4	1.01	-1.17	-10.52	-7.83	-10.23	-17.6	-25.25
330.00	-10.39	-12.22	-9.32	-11.46	-7.9	-2.26	-1.98	-2.03	-11.34	-11.47	-7.78	-25.25	-25.25
345.00	-10.65	-11.04	-13.16	-13.7	-5.65	-0.67	-2.46	-4.67	-10.65	-12.4	-7.88	-23.06	-25.25

7025MHz Composite Gain (1SS)													
Freq	7025.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-9.51	-7.27	-6.33	-9.11	-3.07	4.44	2.15	-2.00	-9.54	-10.59	-6.28	-15.32	-18.18
15.00	-9.12	-8.09	-5.26	-8.75	-2.38	3.14	1.29	-3.13	-12.09	-8.52	-8.56	-12.63	-18.18
30.00	-8.56	-9.35	-3.25	-6.27	-4.45	3.47	4.40	0.41	-8.52	-5.66	-8.91	-12.02	-18.18
45.00	-8.40	-7.29	-2.61	-9.09	-3.07	4.84	5.77	1.05	-4.96	-5.03	-7.72	-11.80	-18.18
60.00	-8.88	-6.43	-2.41	-6.68	-5.57	4.02	6.81	2.23	-4.37	-4.90	-8.46	-12.81	-18.18
75.00	-9.13	-7.46	-3.40	-2.44	-5.81	4.46	5.15	0.76	-7.05	-7.58	-9.46	-9.63	-18.18
90.00	-9.56	-6.68	-0.75	-3.59	-5.58	5.99	7.24	3.77	-6.86	-1.52	-4.91	-6.82	-18.18
105.00	-10.07	-6.71	-2.98	-3.57	-5.99	3.65	5.89	1.19	-7.47	-4.04	-7.61	-6.95	-18.18
120.00	-9.64	-7.83	-4.77	-3.84	-6.80	5.13	6.35	0.66	-10.25	-5.18	-6.77	-9.39	-18.18
135.00	-8.74	-7.59	-4.07	-7.79	-3.71	4.93	6.74	3.14	-5.37	-5.33	-5.86	-11.57	-18.18
150.00	-8.64	-6.57	-2.47	-8.27	-3.70	4.90	3.81	0.03	-2.76	-4.73	-9.41	-13.35	-18.18
165.00	-8.07	-7.41	-3.76	-8.47	-6.36	4.21	3.28	-0.77	-9.72	-9.21	-10.45	-14.12	-18.18
180.00	-8.15	-11.16	-6.74	-8.74	-3.85	2.03	2.60	-1.11	-5.68	-9.10	-8.80	-10.17	-18.18
195.00	-8.48	-13.16	-7.12	-11.81	-4.06	2.87	2.39	-1.05	-6.19	-8.56	-7.87	-9.72	-18.18
210.00	-8.92	-12.62	-5.44	-8.89	-5.64	2.43	1.87	0.34	-7.90	-6.44	-7.48	-11.35	-18.18
225.00	-9.03	-13.68	-5.22	-7.28	-1.36	3.40	4.10	2.44	-5.63	-4.68	-8.13	-11.96	-18.18
240.00	-8.91	-15.45	-5.39	-9.56	-2.84	-0.55	1.47	-2.43	-7.92	-10.62	-9.17	-12.09	-18.18
255.00	-8.43	-15.68	-5.47	-7.33	-3.68	0.37	2.87	0.67	-5.89	-8.70	-16.48	-11.13	-18.18
270.00	-8.12	-13.57	-7.25	-10.39	-0.86	4.89	4.64	2.95	-1.94	-9.02	-13.41	-10.00	-18.18
285.00	-7.75	-10.86	-6.82	-7.74	-2.22	0.23	2.53	-5.51	-9.01	-12.39	-13.99	-12.45	-18.18
300.00	-7.90	-9.45	-5.84	-9.33	-2.41	2.54	3.87	-1.16	-6.25	-8.46	-16.14	-14.79	-18.18
315.00	-8.55	-9.51	-6.33	-5.91	-2.08	3.83	3.67	1.21	-8.98	-6.44	-6.83	-13.70	-18.18
330.00	-9.14	-9.17	-5.84	-6.98	-2.90	-1.96	0.63	-0.47	-6.20	-9.61	-6.98	-16.59	-18.18

345.00	-9.58	-7.83	-9.26	-9.90	-3.31	1.43	-0.90	-2.17	-7.92	-10.56	-6.85	-15.47	-18.18
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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	-12.30	-10.24	-9.32	-10.50	-6.07	1.48	-0.34	-4.79	-11.86	-13.42	-9.27	-17.86	-20.63
15.00	-12.03	-11.10	-8.27	-10.76	-5.34	0.17	-1.62	-5.92	-14.82	-11.38	-11.57	-15.57	-20.63
30.00	-11.53	-12.36	-6.25	-8.52	-7.41	0.58	1.46	-2.60	-11.44	-7.59	-11.70	-14.29	-20.63
45.00	-11.41	-10.29	-5.62	-11.12	-5.75	1.85	2.93	-1.72	-7.97	-7.73	-10.61	-14.07	-20.63
60.00	-11.82	-9.40	-5.39	-9.45	-8.41	1.01	3.80	-0.78	-7.38	-7.91	-11.38	-15.76	-20.63
75.00	-12.02	-10.12	-6.40	-5.21	-8.82	1.45	2.18	-2.15	-10.06	-9.76	-11.29	-12.57	-20.63
90.00	-12.35	-9.45	-3.76	-5.64	-8.58	3.05	4.34	0.92	-8.58	-4.46	-7.75	-9.47	-20.63
105.00	-12.77	-9.57	-5.99	-6.52	-8.88	0.65	2.91	-1.82	-10.48	-6.67	-9.45	-9.76	-20.63
120.00	-12.53	-10.79	-7.56	-6.84	-9.73	2.40	3.37	-2.27	-12.64	-8.18	-9.74	-12.35	-20.63
135.00	-11.68	-10.45	-7.04	-10.79	-6.66	1.92	3.73	0.17	-7.07	-8.20	-8.78	-14.58	-20.63
150.00	-11.51	-9.57	-5.48	-11.24	-6.71	1.90	0.81	-2.86	-5.77	-7.73	-12.41	-16.17	-20.63
165.00	-10.92	-10.39	-6.54	-11.31	-9.02	1.20	0.39	-3.73	-12.22	-11.63	-13.41	-17.10	-20.63
180.00	-10.90	-14.11	-9.70	-11.50	-6.82	-0.98	-0.10	-4.06	-8.58	-11.96	-11.80	-13.15	-20.63
195.00	-11.05	-16.06	-10.10	-14.75	-6.66	-0.13	-0.20	-4.05	-9.14	-11.56	-10.80	-12.73	-20.63
210.00	-11.53	-15.57	-8.30	-11.72	-8.12	-0.57	-1.10	-2.66	-10.90	-8.98	-10.39	-14.16	-20.63
225.00	-11.66	-16.66	-8.23	-10.08	-3.76	0.80	1.36	-0.53	-8.40	-7.20	-10.62	-14.69	-20.63
240.00	-11.62	-18.44	-7.91	-12.56	-4.84	-3.18	-1.52	-5.18	-10.83	-13.60	-11.84	-14.99	-20.63
255.00	-11.16	-18.60	-8.47	-10.02	-6.13	-2.64	0.02	-2.16	-8.44	-11.57	-19.47	-14.12	-20.63
270.00	-10.87	-16.52	-10.02	-13.32	-3.76	1.89	1.65	-0.05	-4.83	-11.99	-16.37	-12.95	-20.63
285.00	-10.54	-13.84	-9.79	-10.69	-5.21	-2.59	-0.45	-8.52	-11.93	-15.30	-16.72	-15.46	-20.63
300.00	-10.72	-12.46	-8.75	-12.13	-5.34	0.06	1.11	-4.14	-9.08	-10.20	-17.91	-17.80	-20.63
315.00	-11.39	-12.52	-9.33	-7.40	-4.36	0.84	0.66	-1.77	-11.85	-9.27	-9.83	-16.67	-20.63
330.00	-11.93	-12.18	-8.84	-9.89	-5.73	-4.42	-2.37	-3.34	-9.01	-12.54	-9.64	-18.71	-20.63
345.00	-12.33	-10.84	-12.23	-12.87	-6.29	-1.52	-3.77	-5.16	-10.92	-13.48	-9.59	-17.81	-20.63