

Antenna Composite Gain Test Report

1. Test Information

| | |
|--------------|-----------------|
| Equipment | MVG |
| Brand Name | Nokia |
| Model Name | SG24-DP400-6000 |
| Applicant | Nokia |
| Manufacturer | Nokia |

2. Testing Location

| Testing Location | |
|------------------|--|
| INPAQ | ADD: No. 7 Guangtai Road, Huinan High tech Industrial Park, Hui'ao Avenue, Huizhou City, China |

| Test Condition | Test Engineer | Test Environment (°C / %) | Test Date |
|----------------|---------------|-------------------------------|-----------------------|
| Radiated | Hao Qin | 20-24 / 45-60 | 09.25.2023~09.25.2023 |

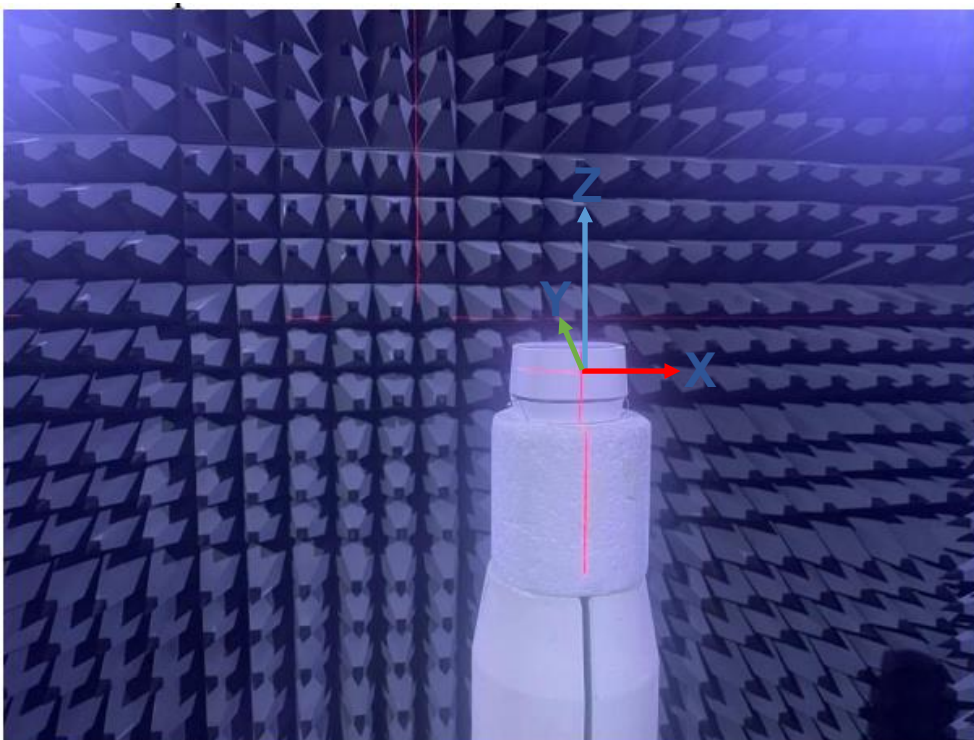
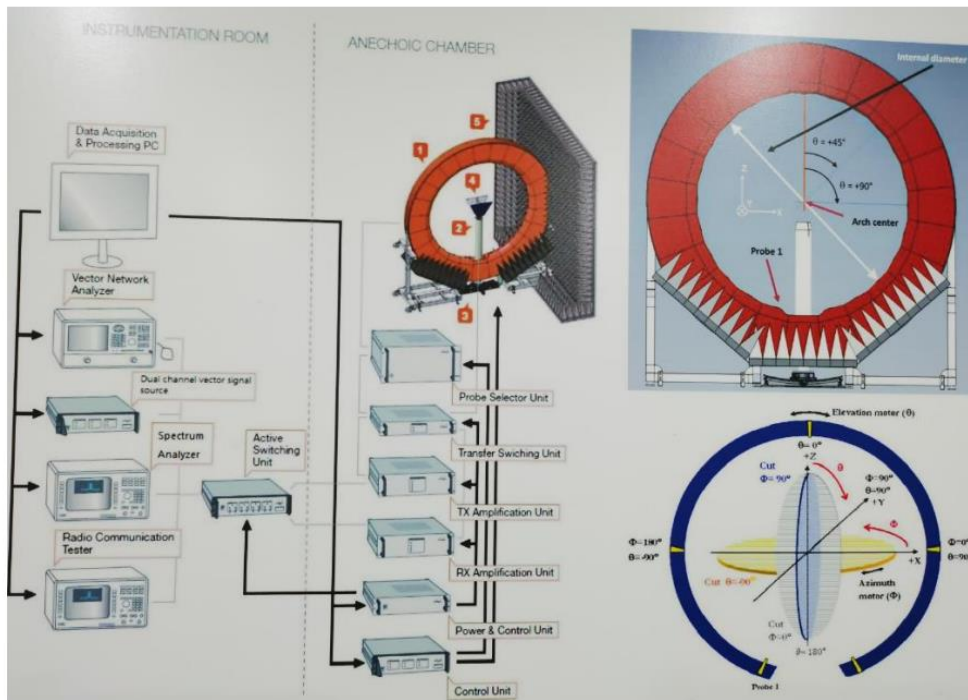
3. Test Frequency

| Band (MHz) | Test Frequency (MHz) |
|------------|-----------------------|
| 2400-5850 | 2400-2500 / 5150-5850 |

4. Antenna Information

| Ant. Position | Brand Name | Model Name | Ant. Type | Connector |
|----------------|------------|---------------------|-----------|-----------|
| Antenna 1 (2G) | Nokia | 3TN 00506 BAAA | Dipole | I-PEX |
| Antenna 1 (5G) | Nokia | 3TN 00506 BAAA | Dipole | I-PEX |
| Antenna 2 (2G) | Nokia | 3TN 00506 AAAA | Dipole | I-PEX |
| Antenna 2 (5G) | Nokia | 3TN 00506 AAAA | Dipole | I-PEX |
| Antenna 3 (2G) | Nokia | PCB onboard Antenna | Dipole | I-PEX |

5. Test Configuration





7. Test Method

The “great circle” cut method, whereby the Measurement Antenna remains fixed and the EUT is rotated about two axes in sequential order. The radiated RF performance of the Equipment Under Test (EUT) is measured by sampling the radiated transmit power of the mobile at various locations surrounding the device. A three-dimensional characterization of the 'transmit' performance of the EUT is pieced together by analyzing the data from the spatially distributed measurements.

Data points taken every 15 degrees in the theta and in the phi axes are deemed sufficient to fully characterize the EUT's Far-Field radiation pattern and total radiated power. All of the measured power values will be integrated.

8. Measured Values and Calculation of Correlated / Uncorrelated Gains

Antenna Peak Gain Table (Ant. Position: 2G/5G Ant.1~3)

| Band (MHz) | 2400-5850 | |
|----------------------|-----------|-----------|
| Frequency (MHz) | 2400-2500 | 5150-5850 |
| Ant.1 Max Gain (dBi) | 4.78 | 5.65 |
| Ant.2 Max Gain (dBi) | 5.02 | 5.16 |
| Ant.3Max Gain (dBi) | 3.47 | - |
| Max Gain (dBi) | 5.02 | 5.65 |

Because the antennas are fixed in location within the device the directional antenna gain for MIMO is calculated over a sphere using the raw spatial data taken at 15 degree steps of theta and phi for each antenna using the equations from KDB 662911 D01. The raw antenna data is located in the appendix of this report.

The correlated antenna gain was calculated using KDB 662911 D01, F(2)(d)(i). The

uncorrelated antenna gain was calculated using KDB 662911 D01, F(2)(d)(ii).

The uncorrelated and correlated gains were calculated for each point in the spatial data, and the highest values reported.

Note :
KDB 662911 D01, F(2)(d)(i)

$$\text{Correlated Gain} = 10 \log \left[\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \dots + 10^{\frac{G_n}{20}} \right)^2 / N_{Ant.} \right] \text{ dBi}$$

KDB 662911 D01, F(2)(d)(ii)

$$\text{Uncorrelated Gain} = 10 \log \left[\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_n}{10}} \right) / N_{Ant.} \right] \text{ dBi}$$

$N_{Ant.}$: Number of antenna
 G_n : Gain of antenna

Maximum Correlated / Uncorrelated Gain Calculation

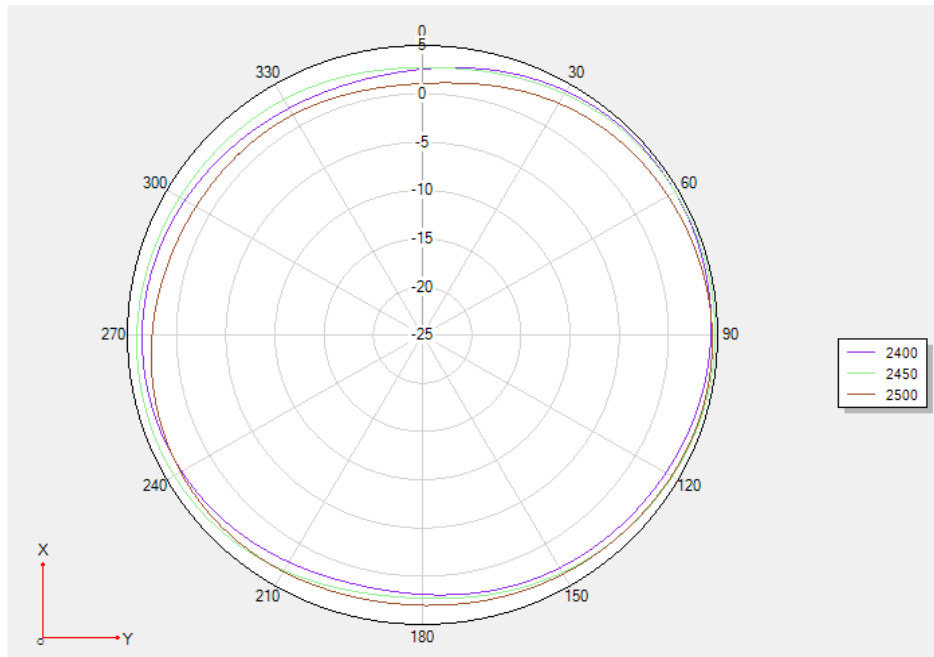
(Ant. Position: 2G/5G Ant.1~3)

| Frequency (MHz) | 2400-2500 | 5150-5850 |
|-------------------------------|---------------------|--------------------|
| Ant.1 Gain (dBi) | 4.61 | 5.16 |
| Ant.2 Gain (dBi) | 4.44 | 4.99 |
| Ant.3Gain (dBi) | 3.47 | - |
| Phi (°) | 39 @ Ant.1/ Ant.2 | 24 @ Ant.1/ Ant.2 |
| | 47 @ Ant.3 | - |
| Theta (°) | 360 @ Ant.1/ Ant.2 | 360 @ Ant.1/ Ant.2 |
| | 109 @ Ant.3 | - |
| Beamforming | 7.51 @ Ant.1+ Ant.2 | 7.91 |
| | 5.13 @ Ant.2+ Ant.3 | |
| Non-Beamforming (CDD MODE) | 4.61 @ Ant.1+ Ant.2 | 5.16 |
| | 4.44 @ Ant.2+ Ant.3 | |

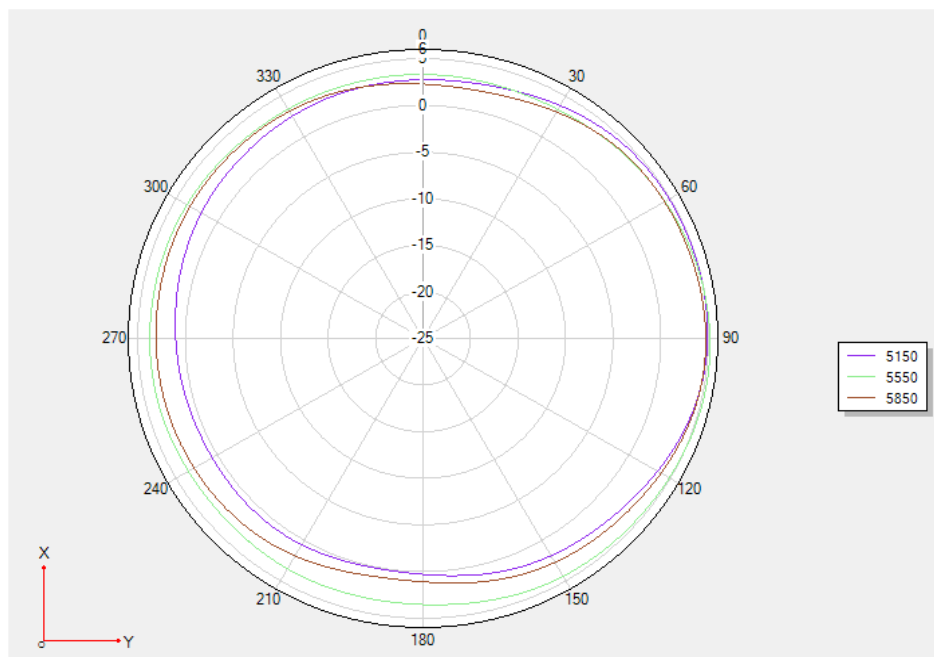
9. Radiation Pattern

Ant. Position: 2G/5G Ant.1~3

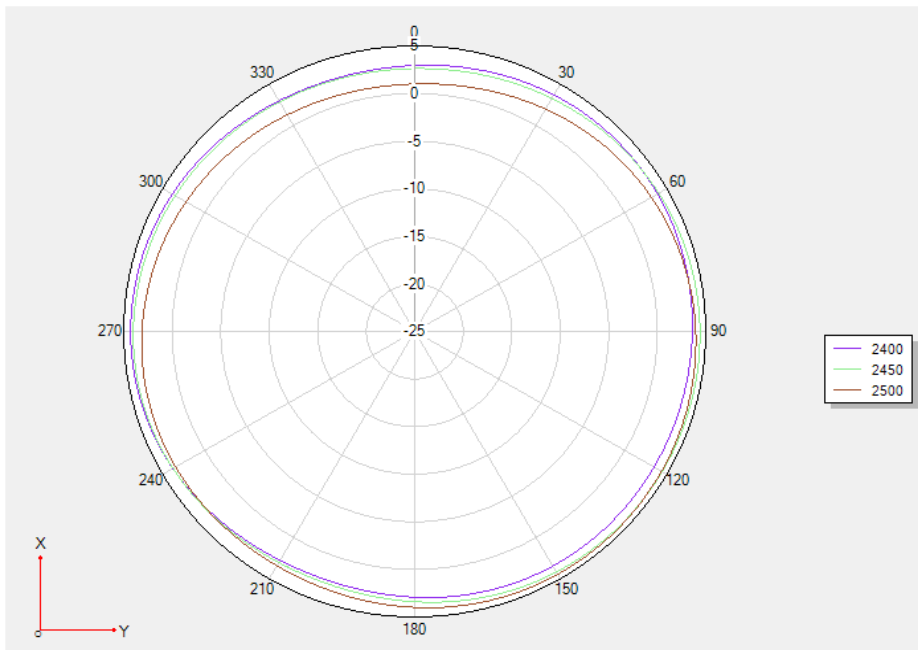
XY_Pol._ Theta 90_2G_Ant.1



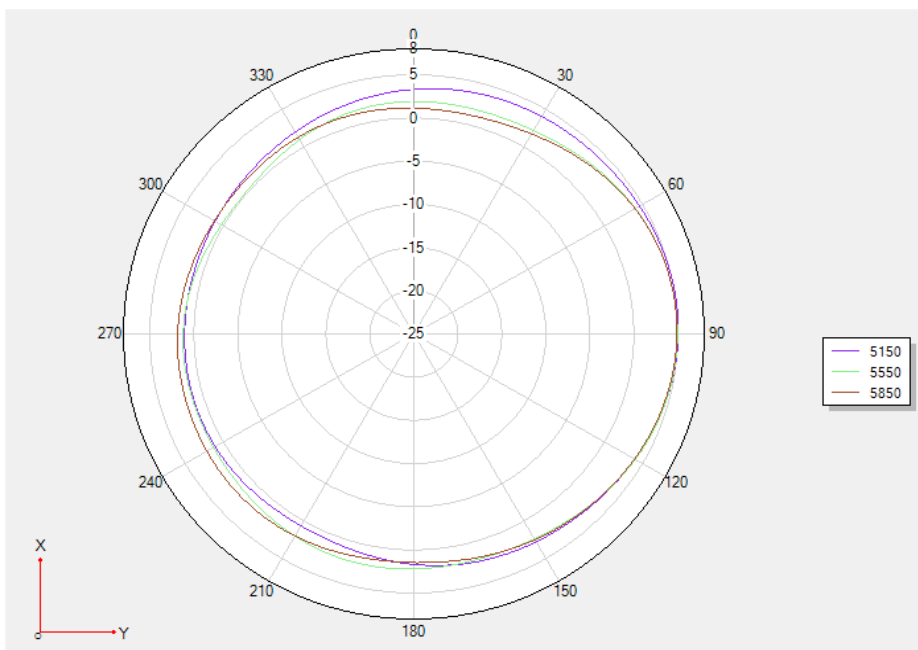
XY_Pol._ Theta 90_5G_Ant.1



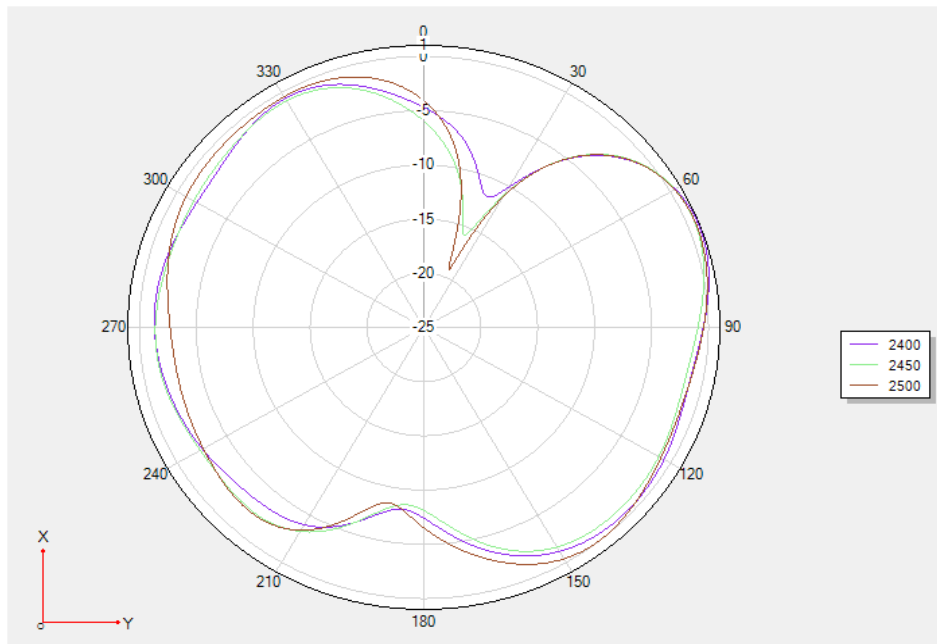
XY_Pol._ Theta 90_2G_Ant.2



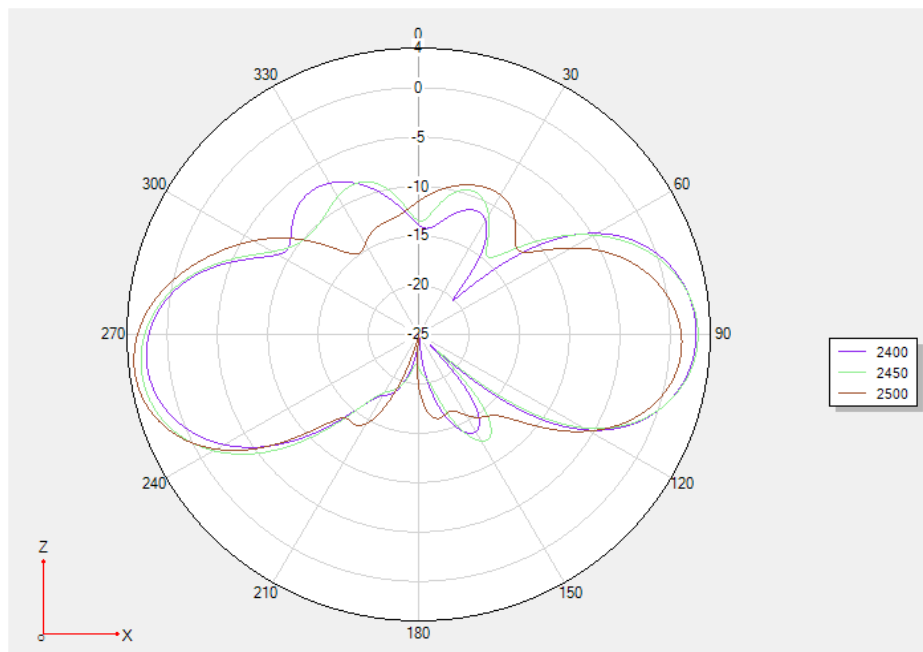
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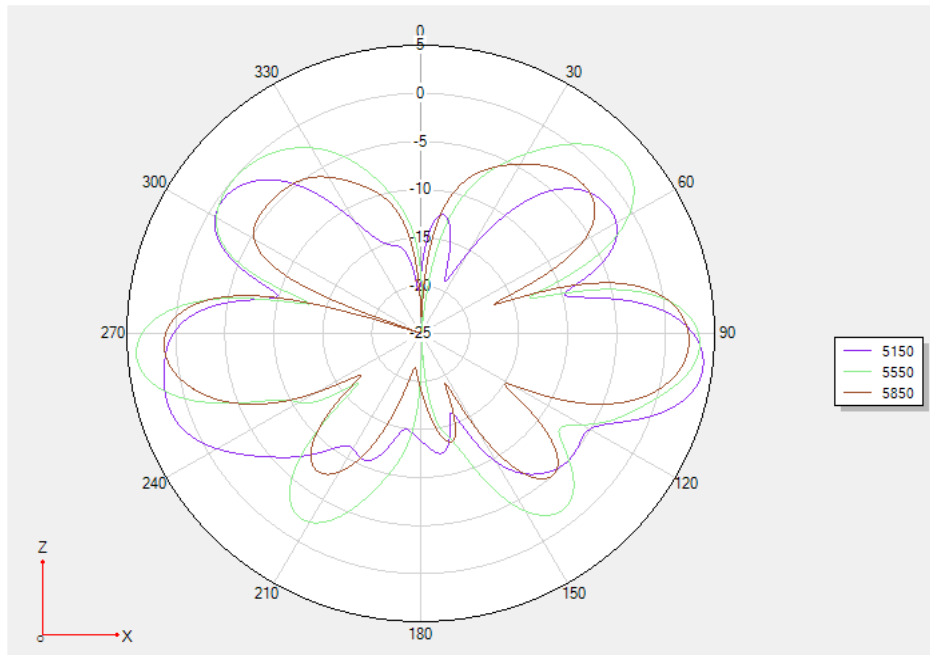
XY_Pol._ Theta 90_2G_Ant.3



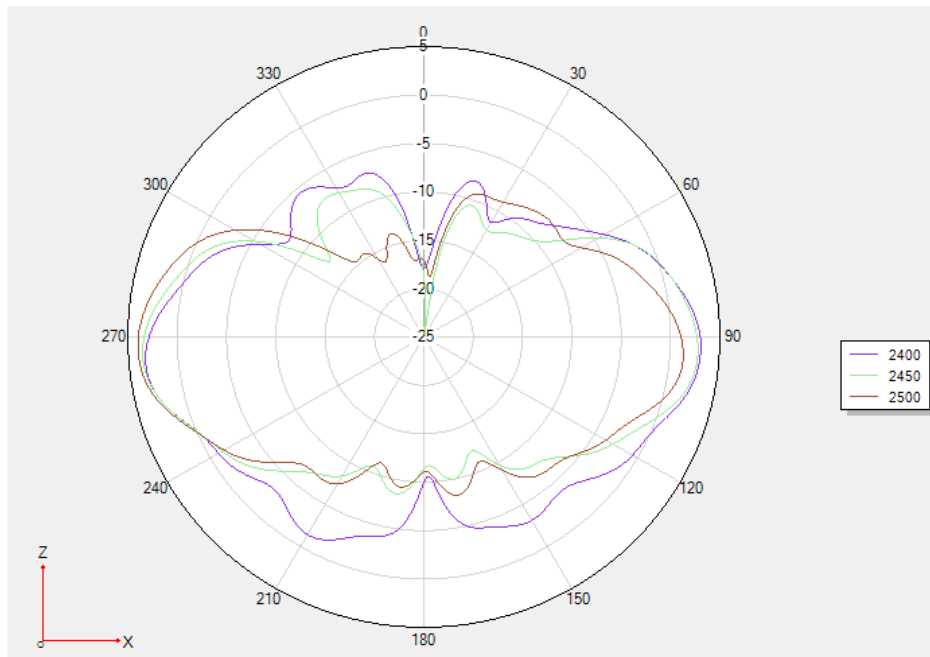
XZ_Pol._ Phi0_2G_Ant.1



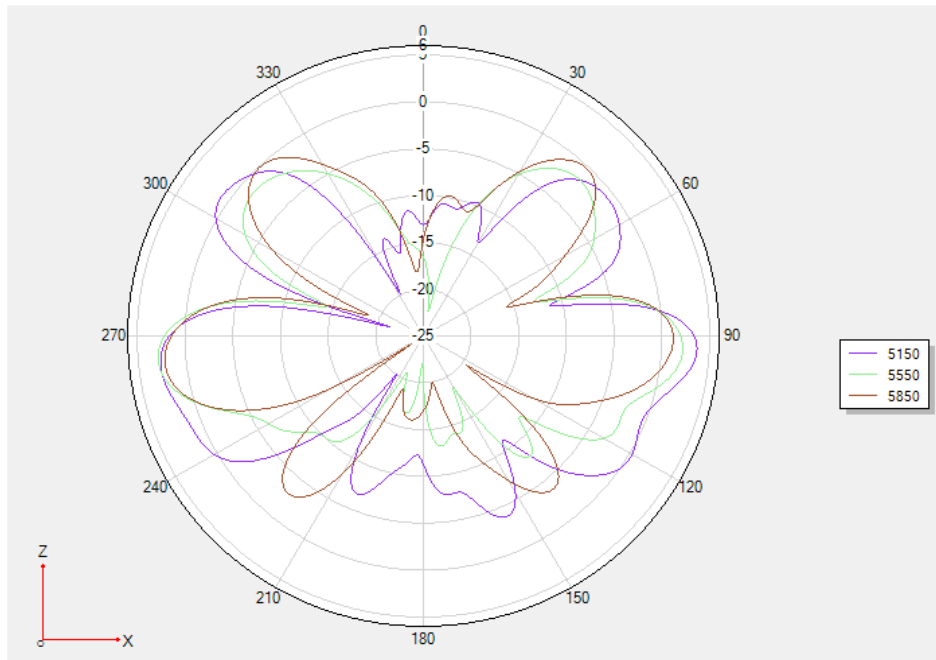
XZ_Pol._Phi0_5G_Ant.1



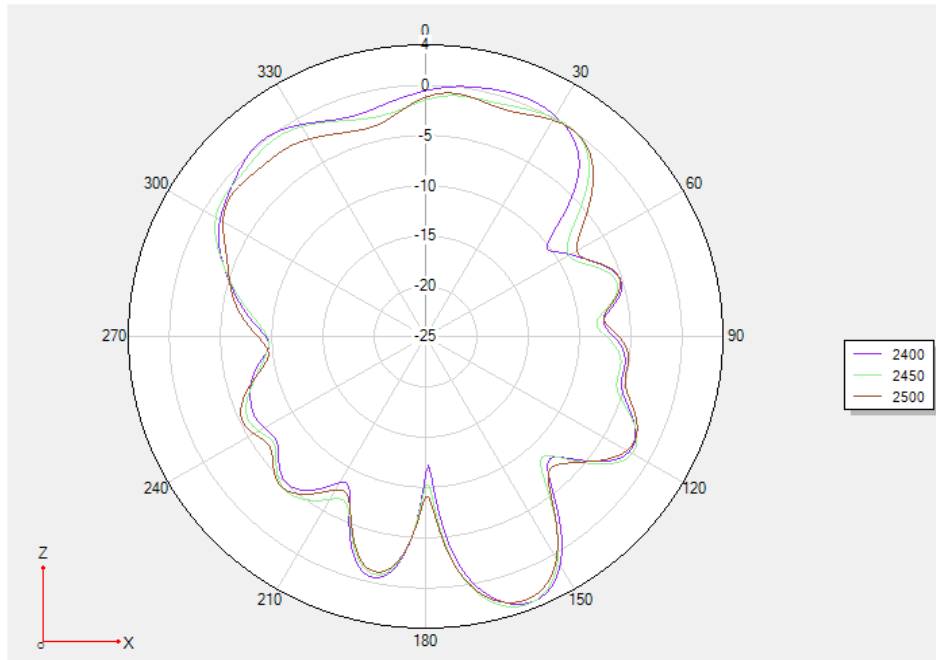
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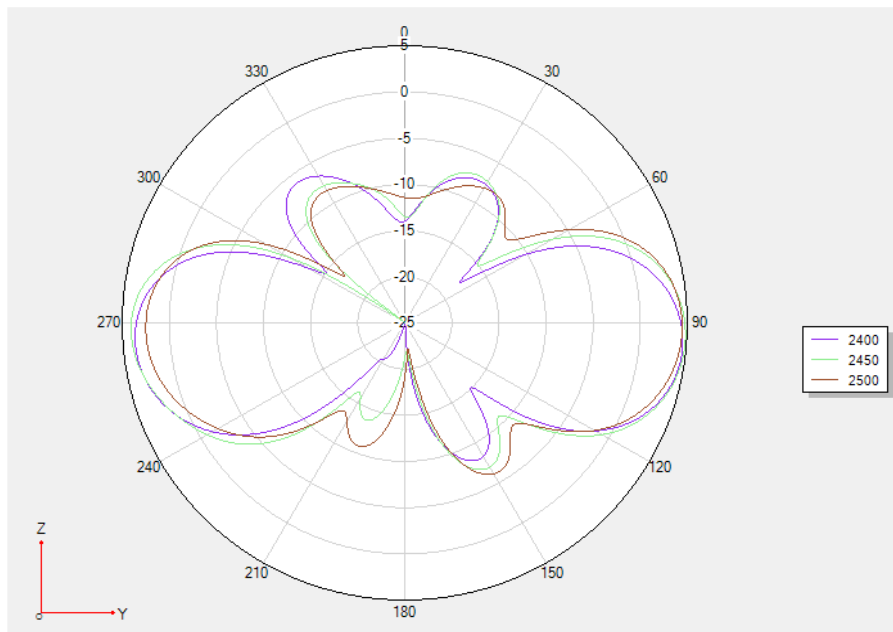
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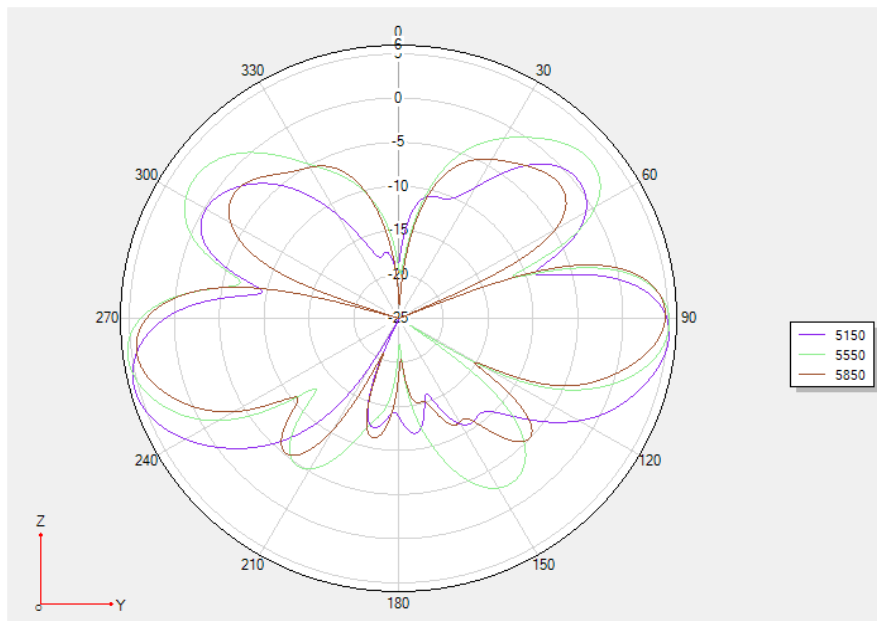
XZ_Pol._Phi0_2G_Ant.3



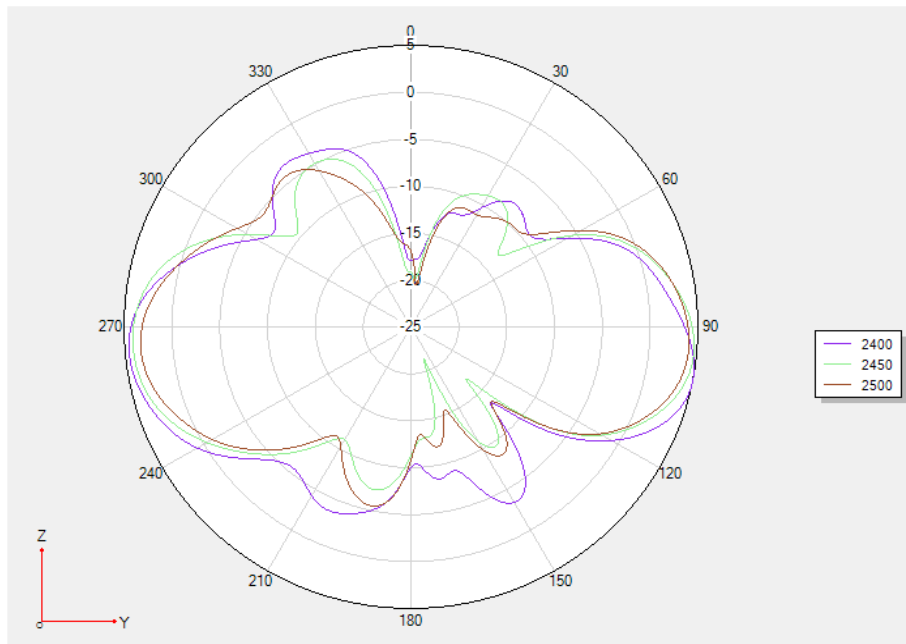
YZ_Pol._Phi90_2G_Ant.1



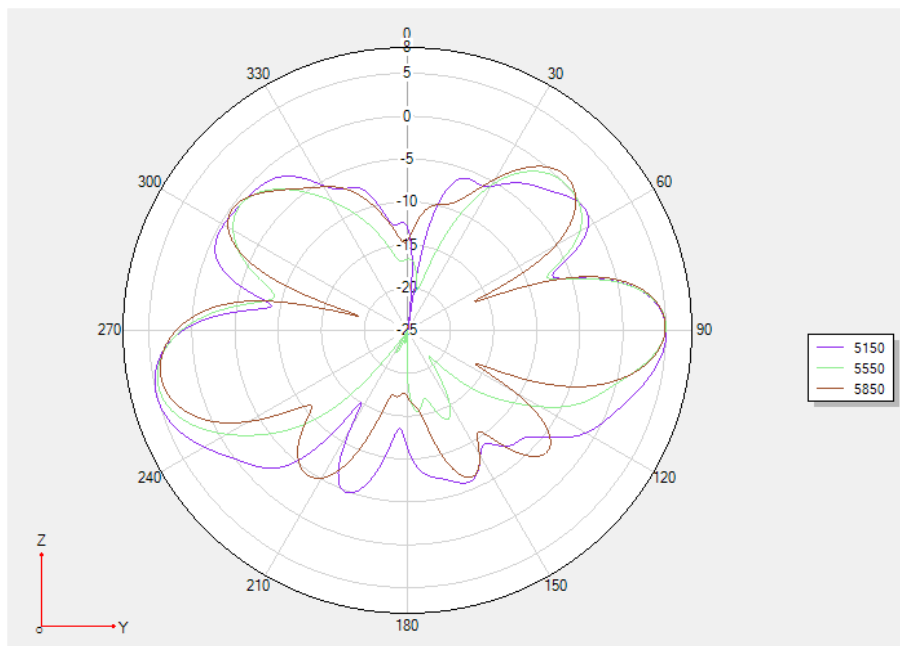
YZ_Pol._Phi90_5G_Ant.1



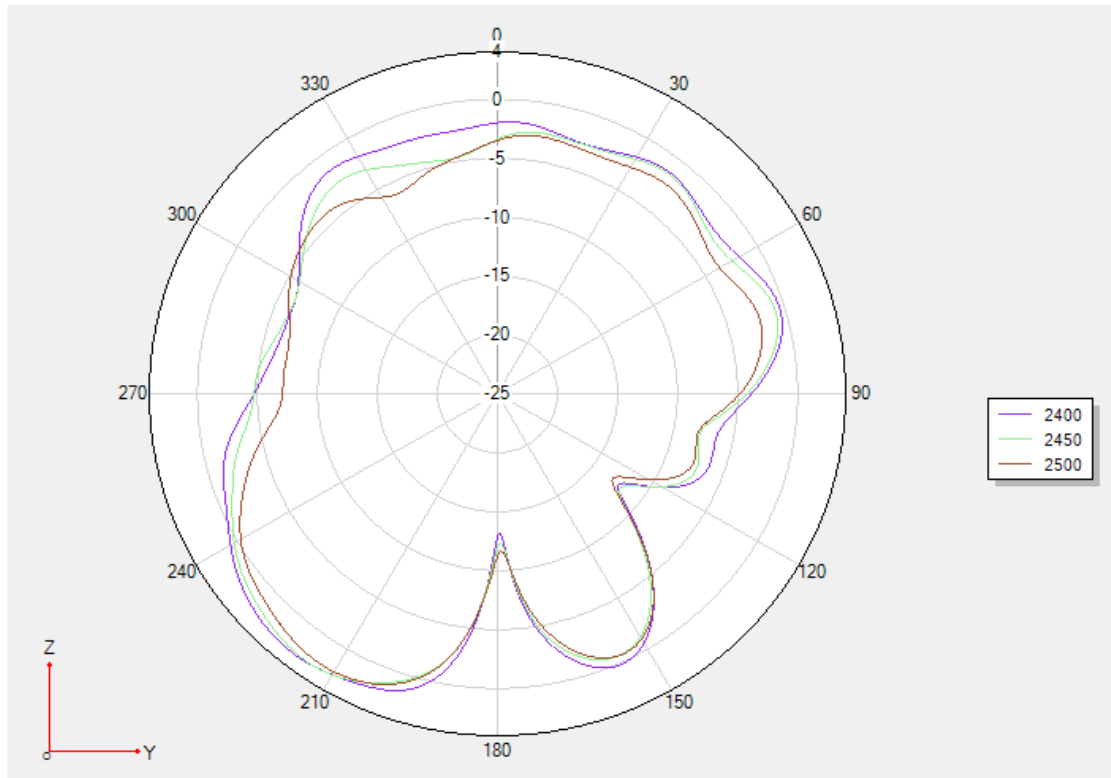
YZ_Pol._Phi90_2G_Ant.2



YZ_Pol._Phi90_5G_Ant.2



YZ_Pol._Phi90_2G_Ant.3



Appendix _Radiated Total Gain Result

Ant. Position: 2G Ant.1_GAIN PHI

| 2G-Antenna 1 | | | | | | | | | | | | | | | |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| FrequencyPhi\Theta | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | | |
| 2400 0 | -24.84 | -23.955 | -23.217 | -22.874 | -22.852 | -23.156 | -23.855 | -24.718 | -25.802 | -26.468 | -26.553 | -25.914 | -24.977 | | |
| 2400 15 | -20.441 | -21.234 | -21.18 | -20.187 | -18.432 | -16.871 | -15.485 | -14.818 | -14.806 | -15.433 | -17.079 | -18.82 | -19.937 | | |
| 2400 30 | -18.074 | -17.711 | -16.39 | -15.63 | -15.281 | -15.245 | -15.355 | -15.52 | -15.692 | -15.67 | -15.093 | -14.033 | -12.623 | | |
| 2400 45 | -11.439 | -9.0021 | -7.7496 | -7.44 | -7.4897 | -7.6906 | -8.2327 | -9.2429 | -11.345 | -14.18 | -21.248 | -31.032 | -19.621 | | |
| 2400 60 | -1.2799 | -0.7032 | -0.1773 | 0.00751 | -0.0277 | -0.1963 | -0.5584 | -1.0348 | -1.6695 | -2.2253 | -3.2289 | -4.4793 | -5.7608 | | |
| 2400 75 | 2.5088 | 2.70121 | 3.16147 | 3.42263 | 3.41909 | 3.22034 | 2.84045 | 2.42294 | 2.0444 | 1.91874 | 1.72498 | 1.27032 | 0.75919 | | |
| 2400 90 | 2.47042 | 2.62109 | 3.3993 | 4.03155 | 4.38605 | 4.43577 | 4.30134 | 4.05141 | 3.73522 | 3.56424 | 3.36427 | 3.08293 | 2.8858 | | |
| 2400 105 | -1.1988 | -1.5736 | -0.7724 | 0.21812 | 1.02747 | 1.44137 | 1.66568 | 1.64552 | 1.42087 | 1.19409 | 0.97738 | 0.93237 | 1.13303 | | |
| 2400 120 | -8.5214 | -10.076 | -12.727 | -15.423 | -16.089 | -13.541 | -10.807 | -9.5243 | -9.0413 | -8.7581 | -7.5699 | -6.1827 | -5.0787 | | |
| 2400 135 | -11.203 | -9.0539 | -7.768 | -7.5283 | -8.1709 | -9.448 | -11.544 | -13.776 | -16.93 | -20.326 | -22.265 | -18.605 | -15.626 | | |
| 2400 150 | -9.892 | -9.1905 | -8.1435 | -7.4596 | -7.1571 | -7.3521 | -8.1011 | -9.2324 | -11.161 | -13.342 | -16.623 | -17.049 | -14.592 | | |
| 2400 165 | -10.116 | -10.031 | -9.8122 | -9.6246 | -9.5702 | -9.8776 | -10.456 | -11.449 | -12.908 | -13.922 | -14.039 | -13.085 | -11.887 | | |
| 2400 180 | -16.891 | -15.027 | -13.823 | -13.396 | -13.549 | -14.262 | -15.873 | -18.27 | -23.137 | -31.503 | -26.671 | -20.535 | -17.24 | | |
| 2400 195 | -12.096 | -11.154 | -10.409 | -9.9925 | -9.703 | -9.5714 | -9.549 | -9.6482 | -9.8899 | -10.148 | -10.462 | -10.602 | -10.588 | | |
| 2400 210 | -14.198 | -11.79 | -9.9228 | -8.8827 | -8.108 | -7.6436 | -7.3073 | -7.2356 | -7.5098 | -8.0535 | -9.0832 | -9.8263 | -9.9423 | | |
| 2400 225 | -17.318 | -14.782 | -13.183 | -12.425 | -11.885 | -11.537 | -11.374 | -11.673 | -12.834 | -14.51 | -16.273 | -14.564 | -11.576 | | |
| 2400 240 | -4.9622 | -4.4503 | -4.4348 | -4.788 | -5.4762 | -6.2248 | -7.0648 | -7.579 | -7.7431 | -7.6009 | -7.4066 | -7.5987 | -8.3582 | | |
| 2400 255 | 0.66986 | 1.22783 | 1.85485 | 2.14092 | 2.12935 | 1.96747 | 1.74945 | 1.51598 | 1.16589 | 0.82309 | 0.17696 | -0.7139 | -1.8553 | | |
| 2400 270 | 2.8893 | 3.22532 | 3.98974 | 4.51018 | 4.76532 | 4.83599 | 4.80457 | 4.7514 | 4.45422 | 4.12716 | 3.58889 | 3.00431 | 2.50592 | | |
| 2400 285 | 1.24197 | 1.42727 | 2.3152 | 3.07129 | 3.63358 | 3.96348 | 4.2256 | 4.29118 | 4.14798 | 3.90589 | 3.4592 | 3.02672 | 2.75087 | | |
| 2400 300 | -5.884 | -5.881 | -4.4782 | -3.1571 | -1.9974 | -1.2376 | -0.6309 | -0.3807 | -0.4641 | -0.7957 | -1.3713 | -1.6022 | -1.3501 | | |
| 2400 315 | -21.747 | -15.855 | -12.641 | -11.203 | -10.408 | -10.194 | -10.38 | -10.963 | -12.427 | -14.614 | -17.08 | -13.939 | -10.255 | | |
| 2400 330 | -12.409 | -10.919 | -9.3663 | -8.2559 | -7.376 | -7.0128 | -7.1089 | -7.6618 | -8.8659 | -10.351 | -13.078 | -15.846 | -17.945 | | |
| 2400 345 | -18.681 | -17.742 | -15.855 | -14.342 | -13.08 | -12.443 | -12.27 | -12.601 | -13.512 | -14.63 | -16.493 | -18.2 | -19.787 | | |
| 2400 360 | -24.795 | -24.034 | -23.313 | -23.018 | -23.158 | -23.711 | -24.787 | -25.965 | -27.123 | -27.417 | -26.722 | -25.698 | -24.684 | | |
| 2450 0 | -24.93 | -24.045 | -23.307 | -22.964 | -22.942 | -23.246 | -23.945 | -24.808 | -25.892 | -26.558 | -26.643 | -26.004 | -25.067 | | |
| 2450 15 | -20.531 | -21.324 | -21.27 | -20.277 | -18.522 | -16.961 | -15.575 | -14.908 | -14.896 | -15.523 | -17.169 | -18.91 | -20.027 | | |
| 2450 30 | -18.164 | -17.801 | -16.48 | -15.72 | -15.371 | -15.335 | -15.445 | -15.61 | -15.782 | -15.76 | -15.183 | -14.123 | -12.713 | | |
| 2450 45 | -11.529 | -9.0921 | -7.8396 | -7.53 | -7.5797 | -7.7806 | -8.3227 | -9.3329 | -11.435 | -14.27 | -21.338 | -31.122 | -19.711 | | |
| 2450 60 | -1.3699 | -0.7932 | -0.2673 | -0.0825 | -0.1177 | -0.2863 | -0.6484 | -1.1248 | -1.7595 | -2.3153 | -3.3189 | -4.5693 | -5.8508 | | |
| 2450 75 | 2.4188 | 2.61121 | 3.07147 | 3.33263 | 3.32909 | 3.13034 | 2.75045 | 2.33294 | 1.9544 | 1.82874 | 1.63498 | 1.18032 | 0.66919 | | |
| 2450 90 | 2.38042 | 2.53109 | 3.3093 | 3.94155 | 4.29605 | 4.34577 | 4.21134 | 3.96141 | 3.64522 | 3.47424 | 3.27427 | 2.99293 | 2.7958 | | |
| 2450 105 | -1.2888 | -1.6636 | -0.8624 | 0.12812 | 0.93747 | 1.35137 | 1.57568 | 1.55552 | 1.33087 | 1.10409 | 0.88738 | 0.84237 | 1.04303 | | |
| 2450 120 | -8.6114 | -10.166 | -12.817 | -15.513 | -16.179 | -13.631 | -10.897 | -9.6143 | -9.1313 | -8.8481 | -7.6599 | -6.2727 | -5.1687 | | |
| 2450 135 | -11.293 | -9.1439 | -7.858 | -7.6183 | -8.2609 | -9.538 | -11.634 | -13.866 | -17.02 | -20.416 | -22.355 | -18.695 | -15.716 | | |
| 2450 150 | -9.982 | -9.2805 | -8.2335 | -7.5496 | -7.2471 | -7.4421 | -8.1911 | -9.3224 | -11.251 | -13.432 | -16.713 | -17.139 | -14.682 | | |
| 2450 165 | -10.206 | -10.121 | -9.9022 | -9.7146 | -9.6602 | -9.8776 | -10.546 | -11.539 | -12.998 | -14.012 | -14.129 | -13.175 | -11.977 | | |
| 2450 180 | -16.981 | -15.117 | -13.913 | -13.486 | -13.639 | -14.352 | -15.963 | -18.36 | -23.227 | -31.593 | -26.761 | -20.625 | -17.33 | | |
| 2450 195 | -12.186 | -11.244 | -10.499 | -10.082 | -9.793 | -9.6614 | -9.639 | -9.7382 | -9.9799 | -10.238 | -10.552 | -10.692 | -10.678 | | |
| 2450 210 | -14.288 | -11.88 | -10.013 | -8.9727 | -8.198 | -7.7336 | -7.3973 | -7.3256 | -7.5998 | -8.1435 | -9.1732 | -9.9163 | -10.032 | | |
| 2450 225 | -17.408 | -14.872 | -13.273 | -12.515 | -11.975 | -11.627 | -11.464 | -11.763 | -12.924 | -14.6 | -16.363 | -14.654 | -11.666 | | |
| 2450 240 | -5.0522 | -4.5403 | -4.5248 | -4.878 | -5.5662 | -6.3148 | -7.1548 | -7.669 | -7.8331 | -7.6909 | -7.4966 | -7.6887 | -8.4482 | | |
| 2450 255 | 0.57986 | 1.13783 | 1.76485 | 2.05092 | 2.03935 | 1.87747 | 1.65945 | 1.42598 | 1.07589 | 0.73309 | 0.08696 | -0.8039 | -1.9453 | | |
| 2450 270 | 2.7993 | 3.13532 | 3.89974 | 4.42018 | 4.67532 | 4.74599 | 4.76457 | 4.6614 | 4.36422 | 4.03716 | 3.49889 | 2.91431 | 2.41592 | | |
| 2450 285 | 1.15197 | 1.33727 | 2.2252 | 2.98129 | 3.54358 | 3.87348 | 4.1356 | 4.20118 | 4.05798 | 3.81589 | 3.3692 | 2.93672 | 2.66087 | | |
| 2450 300 | -5.974 | -5.971 | -4.5682 | -3.2471 | -2.0874 | -1.3276 | -0.7209 | -0.4707 | -0.5541 | -0.8857 | -1.4613 | -1.6922 | -1.4401 | | |
| 2450 315 | -21.837 | -15.945 | -12.731 | -11.293 | -10.498 | -10.284 | -10.47 | -11.053 | -12.517 | -14.704 | -17.17 | -14.029 | -10.345 | | |
| 2450 330 | -12.499 | -11.009 | -9.4563 | -8.3459 | -7.466 | -7.1028 | -7.1989 | -7.7518 | -8.9559 | -10.441 | -13.168 | -15.936 | -18.035 | | |
| 2450 345 | -18.771 | -17.832 | -15.945 | -14.432 | -13.17 | -12.533 | -12.36 | -12.691 | -13.602 | -14.72 | -16.583 | -18.29 | -19.877 | | |
| 2450 360 | -24.885 | -24.124 | -23.403 | -23.108 | -23.248 | -23.801 | -24.877 | -26.055 | -27.213 | -27.507 | -26.812 | -25.788 | -24.774 | | |
| 2500 0 | -25.38 | -24.495 | -23.757 | -23.414 | -23.392 | -23.696 | -24.395 | -25.258 | -26.342 | -27.008 | -27.093 | -26.454 | -25.517 | | |
| 2500 15 | -20.981 | -21.774 | -21.72 | -20.727 | -18.972 | -17.411 | -16.025 | -15.358 | -15.346 | -15.973 | -17.619 | -19.36 | -20.477 | | |
| 2500 30 | -18.614 | -18.251 | -16.93 | -16.17 | -15.821 | -15.785 | -15.895 | -16.06 | -16.232 | -16.21 | -15.633 | -14.573 | -13.163 | | |
| 2500 45 | -11.979 | -9.5421 | -8.2896 | -7.98 | -8.0297 | -8.2306 | -8.7727 | -9.7829 | -11.885 | -14.72 | -21.788 | -31.572 | -20.161 | | |
| 2500 60 | -1.8199 | -1.2432 | -0.7173 | -0.5325 | -0.5677 | -0.7363 | -1.0984 | -1.5748 | -2.2095 | -2.7653 | -3.7689 | -5.0193 | -6.3008 | | |
| 2500 75 | 1.9688 | 2.16121 | 2.62147 | 2.88263 | 2.87909 | 2.68034 | 2.30045 | 1.88294 | 1.5044 | 1.37874 | 1.18498 | 0.73032 | 0.21919 | | |
| 2500 90 | 1.93042 | 2.08109 | 2.8593 | 3.49155 | 3.84605 | 3.89577 | 3.76134 | 3.51141 | 3.19522 | 3.02424 | 2.82427 | 2.54293 | 2.3458 | | |
| 2500 105 | -1.7388 | -2.1136 | -1.3124 | -0.3219 | 0.48747 | 0.90137 | 1.12568 | 1.10552 | 0.88087 | 0.65409 | 0.43738 | 0.39237 | 0.59303 | | |
| 2500 120 | -9.0614 | -10.616 | -13.267 | -15.963 | -16.629 | -14.081 | -11.347 | -10.064 | -9.5813 | -9.2981 | -8.1099 | -6.7227 | -5.6187 | | |
| 2500 135 | -11.743 | -9.5939 | -8.308 | -8.0683 | -8.7109 | -9.988 | -12.084 | -14.316 | -17.47 | -20.866 | -22.805 | -19.145 | -16.166 | | |
| 2500 150 | -10.432 | -9.7305 | -8.6835 | -7.9996 | -7.6971 | -7.8921 | -8.6411 | -9.7724 | -11.701 | -13.882 | -17.163 | -17.589 | -15.132 | | |
| 2500 165 | -10.656 | -10.571 | -10.352 | -10.165 | -10.11 | -10.328 | -10.996 | -11.989 | -13.448 | -14.462 | -14.579 | -13.625 | -12.427 | | |
| 2500 180 | -17.431 | -15.567 | -14.363 | -13.936 | -14.089 | -14.802 | -16.413 | -18.81 | -23.677 | -32.043 | -27.211 | -21.075 | -17.78 | | |
| 2500 195 | -12.636 | -11.694 | -10.949 | -10.532 | -10.243 | -10.111 | -10.089 | -10.188 | -10.43 | -10.688 | -11.002 | -11.142 | -11.128 | | |
| 2500 210 | -14.738 | -12.33 | -10.463 | -9.4227 | -8.648 | -8.1836 | -7.8473 | -7.7756 | -8.0498 | -8.5935 | -9.6232 | -10.366 | -10.482 | | |
| 2500 225 | -17.858 | -15.322 | -13.723 | -12.965 | -12.425 | -12.077 | -11.914 | -12.213 | -13.374 | -15.05 | -16.813 | -15.104 | -12.116 | | |
| 2500 240 | -5.5022 | -4.9903 | -4.9748 | -5.328 | -6.0162 | -6.7648 | -7.6048 | -8.119 | -8.2831 | -8.1409 | -7.9466 | -8.1387 | -8.8982 | | |
| 2500 255 | 0.12986 | 0.68783 | 1.31485 | 1.60092 | 1.58935 | 1.42747 | 1.20945 | 0.97598 | 0.62589 | 0.28309 | -0.363 | -1.2539 | -2.3953 | | |
| 2500 270 | 2.3493 | 2.68532 | 3.44974 | 3.97018 | 4.22532 | 4.29599 | 4.34457 | 4.2114 | 3.91422 | 3.58716 | 3.04889 | 2.46431 | 1.96592 | | |
| 2500 285 | 0.70197 | 0.88727 | 1.7752 | 2.53129 | 3.09358 | 3.42348 | 3.6856 | 3.75118 | 3.60798 | 3.36589 | 2.9192 | 2.48672 | 2.21087 | | |
| 2500 300 | -6.424 | -6.421 | -5.0182 | -3.6971 | -2.5374 | -1.7776 | -1.1709 | -0.9207 | -1.0041 | -1.3357 | -1 | | | | |

Ant. Position: 5G Ant.1_GAIN PHI

| 5G-Antenna 1 | | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
|--------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequency | Phi/Theta | | | | | | | | | | | | | |
| 5150 | 0 | -28.25 | -31.105 | -32.954 | -31.571 | -29.016 | -26.645 | -25.241 | -24.385 | -23.999 | -24.152 | -24.903 | -26.119 | -27.937 |
| 5150 | 15 | -15.416 | -17.682 | -19.917 | -21.127 | -20.557 | -19.318 | -18.301 | -17.62 | -17.465 | -17.918 | -18.939 | -19.667 | -19.483 |
| 5150 | 30 | -8.9174 | -8.3294 | -8.8488 | -10.33 | -12.436 | -14.781 | -15.287 | -15.333 | -15.76 | -15.131 | -13.251 | -11.448 | -10.136 |
| 5150 | 45 | -12.163 | -10.508 | -10.701 | -12.542 | -16.128 | -23.642 | -30.58 | -26.463 | -19.38 | -15.386 | -12.041 | -9.9114 | -9.0101 |
| 5150 | 60 | -6.6709 | -4.8527 | -3.0775 | -1.7901 | -1.4278 | -1.5642 | -1.8768 | -2.2436 | -2.7662 | -3.3421 | -4.1035 | -4.9659 | -6.0997 |
| 5150 | 75 | -0.8858 | -0.134 | 0.7605 | 1.85099 | 2.88891 | 3.78233 | 4.01935 | 3.8233 | 3.26814 | 2.47251 | 1.19376 | -0.1014 | -1.2258 |
| 5150 | 90 | 1.95894 | 2.14721 | 2.70954 | 3.09859 | 3.30557 | 3.56661 | 3.70191 | 3.76215 | 3.72972 | 3.58253 | 3.50349 | 3.45449 | 3.34625 |
| 5150 | 105 | -14.092 | -12.885 | -11.328 | -9.8551 | -9.424 | -10.385 | -11.893 | -12.776 | -12.893 | -12.72 | -11.61 | -10.429 | -9.5303 |
| 5150 | 120 | -5.3862 | -5.1466 | -4.5868 | -3.8355 | -3.1563 | -2.6045 | -2.4967 | -2.657 | -3.0395 | -3.5588 | -4.2291 | -4.7591 | -5.1686 |
| 5150 | 135 | -5.161 | -4.6014 | -3.9588 | -3.3954 | -2.8948 | -2.3505 | -2.0618 | -1.8979 | -1.8769 | -2.0809 | -2.3428 | -2.428 | -2.4944 |
| 5150 | 150 | -5.3003 | -5.9032 | -6.6018 | -7.1452 | -7.3331 | -7.5556 | -7.8647 | -8.035 | -7.9323 | -7.7872 | -7.5814 | -7.1262 | -6.3506 |
| 5150 | 165 | -11.603 | -11.087 | -11.009 | -11.114 | -11.288 | -11.618 | -11.957 | -12.152 | -12.025 | -11.639 | -11.011 | -10.408 | -9.9275 |
| 5150 | 180 | -29.175 | -26.574 | -24.796 | -23.448 | -22.806 | -22.632 | -22.957 | -23.75 | -25.292 | -27.248 | -29.871 | -30.953 | -29.5 |
| 5150 | 195 | -10.777 | -10.761 | -11.088 | -11.548 | -11.7 | -11.53 | -11.438 | -11.788 | -12.829 | -13.881 | -14.318 | -13.745 | -12.835 |
| 5150 | 210 | -6.2268 | -5.306 | -4.8048 | -4.6869 | -4.7815 | -4.7622 | -4.6385 | -4.7135 | -5.1482 | -5.4699 | -5.4067 | -5.2085 | -5.2597 |
| 5150 | 225 | -2.7831 | -2.8288 | -2.6085 | -2.0744 | -1.7639 | -1.7504 | -1.9251 | -2.2328 | -2.759 | -3.2919 | -3.978 | -4.6804 | -5.0581 |
| 5150 | 240 | -5.217 | -5.5058 | -5.3843 | -4.9031 | -4.5991 | -4.2625 | -3.9484 | -3.9335 | -4.3329 | -4.6586 | -4.8659 | -5.1348 | -5.3756 |
| 5150 | 255 | -5.9342 | -4.8734 | -3.5273 | -2.3297 | -1.9438 | -1.8961 | -2.0654 | -2.7048 | -4.1093 | -5.5439 | -7.176 | -9.004 | -11.068 |
| 5150 | 270 | 3.3349 | 3.40664 | 3.8365 | 4.43042 | 4.68126 | 4.8182 | 4.86957 | 4.62978 | 4.03363 | 3.59593 | 3.19292 | 2.6017 | 2.00424 |
| 5150 | 285 | -0.2327 | -0.4128 | 0.07905 | 0.64424 | 0.85986 | 1.12887 | 1.40016 | 1.31297 | 0.68478 | 0.13988 | -0.1044 | -0.1061 | 0.12852 |
| 5150 | 300 | -6.2859 | -7.8065 | -8.2896 | -7.6905 | -7.1936 | -6.8767 | -6.674 | -6.447 | -6.1244 | -5.8537 | -5.9965 | -6.694 | -6.791 |
| 5150 | 315 | -9.0108 | -10.227 | -12.339 | -13.277 | -12.63 | -12.048 | -11.978 | -12.207 | -12.845 | -14.046 | -16.312 | -15.731 | -12.537 |
| 5150 | 330 | -10.039 | -10.22 | -11.344 | -12.562 | -13.251 | -14.148 | -14.561 | -13.848 | -12.582 | -11.994 | -11.521 | -10.494 | -9.0836 |
| 5150 | 345 | -18.242 | -17.321 | -16.615 | -15.988 | -15.703 | -15.511 | -14.98 | -13.964 | -12.775 | -12.228 | -12.318 | -12.905 | -13.934 |
| 5150 | 360 | -26.628 | -27.683 | -27.693 | -27.991 | -26.47 | -25.858 | -25.423 | -25.063 | -24.768 | -24.699 | -25.026 | -25.906 | -27.706 |
| 5500 | 0 | -28.221 | -31.076 | -32.926 | -31.542 | -28.987 | -26.616 | -25.212 | -24.274 | -23.971 | -23.24 | -24.874 | -26.09 | -27.909 |
| 5500 | 15 | -15.387 | -17.653 | -19.888 | -21.098 | -20.528 | -19.289 | -18.272 | -17.533 | -17.436 | -18.03 | -18.91 | -19.638 | -19.454 |
| 5500 | 30 | -8.8885 | -8.3005 | -8.8199 | -10.301 | -12.407 | -14.752 | -15.258 | -15.35 | -15.731 | -14.41 | -13.222 | -11.419 | -10.107 |
| 5500 | 45 | -12.134 | -10.479 | -10.673 | -12.513 | -16.099 | -23.613 | -30.551 | -25.404 | -19.352 | -15.484 | -12.012 | -9.8825 | -8.9812 |
| 5500 | 60 | -6.642 | -4.8238 | -3.0486 | -1.7612 | -1.3989 | -1.5353 | -1.8479 | -2.2721 | -2.7373 | -2.7977 | -4.0746 | -4.937 | -6.0708 |
| 5500 | 75 | -0.8569 | -0.1051 | 0.7894 | 1.87989 | 2.91781 | 3.81123 | 4.04825 | 3.8001 | 3.29704 | 2.66403 | 1.22266 | -0.0725 | -1.1969 |
| 5500 | 90 | 1.98784 | 2.17611 | 2.73844 | 3.12749 | 3.33447 | 3.59551 | 3.73081 | 3.79535 | 3.75862 | 3.27622 | 3.53239 | 3.48339 | 3.37515 |
| 5500 | 105 | -14.063 | -12.856 | -11.299 | -9.8262 | -9.3951 | -10.356 | -11.865 | -12.793 | -12.864 | -13.508 | -11.581 | -10.4 | -9.5014 |
| 5500 | 120 | -5.3573 | -5.1177 | -4.5579 | -3.8066 | -3.1274 | -2.5756 | -2.4678 | -2.6647 | -3.0106 | -3.2636 | -4.2002 | -4.7302 | -5.1397 |
| 5500 | 135 | -5.1321 | -4.5725 | -3.9299 | -3.3665 | -2.8659 | -2.3216 | -2.0329 | -1.8537 | -1.848 | -2.2782 | -2.3139 | -2.3991 | -2.4655 |
| 5500 | 150 | -5.2714 | -5.8743 | -6.5729 | -7.1163 | -7.3042 | -7.5267 | -7.8358 | -8.0075 | -7.9034 | -8.0302 | -7.5525 | -7.0973 | -6.3217 |
| 5500 | 165 | -11.574 | -11.058 | -10.98 | -11.085 | -11.259 | -11.589 | -11.929 | -12.129 | -11.996 | -11.956 | -10.982 | -10.379 | -9.8986 |
| 5500 | 180 | -29.146 | -26.545 | -24.767 | -23.419 | -22.777 | -22.603 | -22.928 | -23.875 | -25.263 | -24.997 | -29.842 | -30.924 | -29.471 |
| 5500 | 195 | -10.748 | -10.732 | -11.059 | -11.52 | -11.671 | -11.501 | -11.409 | -11.856 | -12.801 | -13.268 | -14.289 | -13.717 | -12.806 |
| 5500 | 210 | -6.1979 | -5.2771 | -4.7759 | -4.658 | -4.7526 | -4.7333 | -4.6096 | -4.7229 | -5.1193 | -5.2109 | -5.3778 | -5.1796 | -5.2308 |
| 5500 | 225 | -2.7542 | -2.7999 | -2.5796 | -2.0455 | -1.735 | -1.7215 | -1.8962 | -2.2605 | -2.7301 | -3.2735 | -3.9491 | -4.6515 | -5.0292 |
| 5500 | 240 | -5.1881 | -5.4769 | -5.3554 | -4.8742 | -4.5702 | -4.2336 | -3.9195 | -3.9369 | -4.304 | -5.0828 | -4.837 | -5.1059 | -5.3467 |
| 5500 | 255 | -5.9053 | -4.8445 | -3.4984 | -2.3008 | -1.9149 | -1.8672 | -2.0365 | -2.8171 | -4.0804 | -4.2553 | -7.1471 | -8.9751 | -11.039 |
| 5500 | 270 | 3.3638 | 3.43554 | 3.8654 | 4.45932 | 4.71016 | 4.8471 | 4.89847 | 4.59547 | 4.06253 | 3.64707 | 3.22182 | 2.6306 | 2.03314 |
| 5500 | 285 | -0.2038 | -0.3839 | 0.10795 | 0.67314 | 0.88876 | 1.15777 | 1.42906 | 1.28737 | 0.71368 | -0.3533 | -0.0755 | -0.0772 | 0.15742 |
| 5500 | 300 | -6.257 | -7.7776 | -8.2607 | -7.6616 | -7.1647 | -6.8478 | -6.6451 | -6.382 | -6.0955 | -6.4491 | -5.9676 | -6.6651 | -6.7621 |
| 5500 | 315 | -8.9819 | -10.198 | -12.31 | -13.248 | -12.601 | -12.019 | -11.949 | -12.233 | -12.816 | -13.517 | -16.283 | -15.702 | -12.508 |
| 5500 | 330 | -10.01 | -10.191 | -11.315 | -12.534 | -13.222 | -14.119 | -14.532 | -13.653 | -12.553 | -11.817 | -11.492 | -10.465 | -9.0547 |
| 5500 | 345 | -18.213 | -17.292 | -16.586 | -15.959 | -15.674 | -15.482 | -14.951 | -13.773 | -12.746 | -12.537 | -12.289 | -12.876 | -13.906 |
| 5500 | 360 | -26.599 | -27.654 | -27.664 | -27.062 | -26.441 | -25.829 | -25.394 | -24.989 | -24.739 | -24.769 | -24.997 | -25.877 | -27.677 |
| 5850 | 0 | -28.433 | -31.288 | -33.138 | -31.754 | -29.199 | -26.828 | -25.424 | -24.486 | -24.183 | -23.452 | -25.086 | -26.302 | -28.121 |
| 5850 | 15 | -15.599 | -17.865 | -20.1 | -21.31 | -20.74 | -19.501 | -18.484 | -17.745 | -17.648 | -18.242 | -19.122 | -19.85 | -19.666 |
| 5850 | 30 | -9.1005 | -8.5125 | -9.0319 | -10.513 | -12.619 | -14.964 | -15.47 | -15.562 | -15.943 | -14.622 | -13.434 | -11.631 | -10.319 |
| 5850 | 45 | -12.346 | -10.691 | -10.885 | -12.725 | -16.311 | -23.825 | -30.763 | -25.616 | -19.564 | -15.696 | -12.224 | -10.095 | -9.1932 |
| 5850 | 60 | -6.854 | -5.0358 | -3.2606 | -1.9732 | -1.6109 | -1.7473 | -2.0599 | -2.4841 | -2.9493 | -3.0097 | -4.2866 | -5.149 | -6.2828 |
| 5850 | 75 | -1.0689 | -0.3171 | 0.5774 | 1.66789 | 2.70581 | 3.59923 | 3.83625 | 3.5881 | 3.08504 | 2.45203 | 1.01066 | -0.2845 | -1.4089 |
| 5850 | 90 | 1.77584 | 1.96411 | 2.52644 | 2.91549 | 3.12247 | 3.38351 | 3.51881 | 3.58335 | 3.54662 | 3.06422 | 3.32039 | 3.27139 | 3.16315 |
| 5850 | 105 | -14.275 | -13.068 | -11.511 | -10.038 | -9.6071 | -10.568 | -12.077 | -13.005 | -13.076 | -13.72 | -11.793 | -10.612 | -9.7134 |
| 5850 | 120 | -5.5693 | -5.3297 | -4.7699 | -4.0186 | -3.3394 | -2.7876 | -2.6798 | -2.8767 | -3.2226 | -3.4756 | -4.4122 | -4.9422 | -5.3517 |
| 5850 | 135 | -5.3441 | -4.7845 | -4.1419 | -3.5785 | -3.0779 | -2.5336 | -2.2449 | -2.0657 | -2.06 | -2.4902 | -2.5259 | -2.6111 | -2.6775 |
| 5850 | 150 | -5.4834 | -6.0863 | -6.7849 | -7.3283 | -7.5162 | -7.7387 | -8.0478 | -8.2195 | -8.1154 | -8.2422 | -7.7645 | -7.3093 | -6.5337 |
| 5850 | 165 | -11.786 | -11.27 | -11.192 | -11.297 | -11.471 | -11.801 | -12.141 | -12.341 | -12.208 | -12.168 | -11.194 | -10.591 | -10.111 |
| 5850 | 180 | -29.358 | -26.757 | -24.979 | -23.631 | -22.989 | -22.815 | -23.14 | -24.087 | -25.475 | -25.209 | -30.054 | -31.136 | -29.683 |
| 5850 | 195 | -10.96 | -10.944 | -11.271 | -11.732 | -11.883 | -11.713 | -11.621 | -12.068 | -13.013 | -13.48 | -14.501 | -13.929 | -13.018 |
| 5850 | 210 | -6.4099 | -5.4891 | -4.9879 | -4.87 | -4.9646 | -4.9453 | -4.8216 | -4.9349 | -5.3313 | -5.4229 | -5.5898 | -5.3916 | -5.4428 |
| 5850 | 225 | -2.9662 | -3.0119 | -2.7916 | -2.2575 | -1.947 | -1.9335 | -2.1082 | -2.4725 | -2.9421 | -3.4855 | -4.1611 | -4.8635 | -5.2412 |
| 5850 | 240 | -5.4001 | -5.6889 | -5.5674 | -5.0862 | -4.7822 | -4.4456 | -4.1315 | -4.1489 | -4.516 | -5.2948 | -5.049 | -5.3179 | -5.5587 |
| 5850 | 255 | -6.1173 | -5.0565 | -3.7104 | -2.5128 | -2.1269 | -2.0792 | -2.2485 | -3.0291 | -4.2924 | -4.4673 | -7.3591 | -9.1871 | -11.251 |
| 5850 | 270 | 3.1518 | 3.22354 | 3.6534 | 4.24732 | 4.49816 | 4.6351 | 4.68647 | 4.38347 | 3.85053 | 3.43507 | 3.00982 | 2.4186 | 1.82114 |
| 5850 | 285 | -0.4158 | -0.5959 | -0.1041 | 0.46114 | 0.67676 | 0.94577 | 1.21706 | 1.07537 | 0.50168 | -0.5653 | -0.2875 | -0.2892 | -0.0546 |
| 5850 | 300 | -6.469 | -7.9896 | -8.4727 | -7.8736 | -7.3767 | -7.0598 | -6.8571 | -6.594 | -6.3075 | -6.6611 | -6.1796 | -6.8771 | -6.9741 |
| 5850 | 315 | -9.1939 | -10.41 | -12.522 | -13.46 | -12.813 | -12.231 | -12.161 | -12.445 | -13.028 | -13.729 | -16.495 | -15.914 | -12.72 |
| 5850 | 330 | -10.222 | -10.403 | -11.527 | -12.746 | -13.434 | -14.331 | -14.744 | -13.865 | -12.765 | -12.029 | -11. | | |

Ant. Position: 2G Ant.1_GAIN THETA

| 2G-Antenna 1 | | | | | | | | | | | | | | |
|--------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequeno | Phi\Theta | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
| 2400 | 0 | -17.081 | -11.915 | -14.388 | -15.507 | -5.1522 | 0.47986 | 2.6993 | 1.05197 | -6.074 | -18.89 | -12.599 | -18.871 | -24.985 |
| 2400 | 15 | -15.018 | -10.813 | -11.697 | -13.849 | -4.6081 | 1.12461 | 3.12126 | 1.32321 | -5.9481 | -14.164 | -10.903 | -17.714 | -24.118 |
| 2400 | 30 | -14.013 | -10.134 | -10.113 | -13.253 | -4.6248 | 1.66485 | 3.79974 | 2.1252 | -4.6682 | -12.059 | -9.5563 | -16.045 | -23.503 |
| 2400 | 45 | -13.586 | -9.6655 | -9.0727 | -13.067 | -4.978 | 1.95092 | 4.32018 | 2.88129 | -3.3471 | -10.917 | -8.4459 | -14.532 | -23.208 |
| 2400 | 60 | -13.739 | -9.3054 | -8.298 | -12.986 | -5.6662 | 1.93935 | 4.57532 | 3.44358 | -2.1874 | -10.368 | -7.566 | -13.27 | -23.348 |
| 2400 | 75 | -14.452 | -9.1033 | -7.8336 | -12.905 | -6.4148 | 1.77747 | 4.54599 | 3.77348 | -1.4276 | -10.395 | -7.2028 | -12.633 | -23.901 |
| 2400 | 90 | -16.063 | -9.0005 | -7.4973 | -12.985 | -7.2548 | 1.55945 | 4.61457 | 4.0356 | -0.8209 | -10.944 | -7.2989 | -12.46 | -24.977 |
| 2400 | 105 | -18.91 | -9.0613 | -7.4371 | -13.693 | -7.8155 | 1.2869 | 4.53384 | 4.09524 | -0.5593 | -12.137 | -7.9678 | -12.875 | -26.324 |
| 2400 | 120 | -23.327 | -9.2593 | -7.6998 | -15.246 | -7.9331 | 0.97589 | 4.26422 | 3.95798 | -0.6541 | -14.093 | -9.0559 | -13.702 | -27.313 |
| 2400 | 135 | -34.359 | -9.612 | -8.4066 | -18.191 | -7.7442 | 0.54202 | 3.85376 | 3.64761 | -1.0856 | -18.737 | -10.955 | -15.12 | -27.563 |
| 2400 | 150 | -26.861 | -9.9468 | -9.2732 | -18.798 | -7.5966 | -0.013 | 3.39889 | 3.2692 | -1.5613 | -24.559 | -13.268 | -16.683 | -26.912 |
| 2400 | 165 | -20.139 | -10.228 | -10.081 | -14.671 | -7.8585 | -1.0602 | 2.72779 | 2.78059 | -1.7867 | -16.25 | -16.422 | -18.632 | -25.737 |
| 2400 | 180 | -17.081 | -10.306 | -10.082 | -11.393 | -8.7114 | -2.196 | 2.28042 | 2.55152 | -1.4699 | -11.629 | -18.264 | -20.172 | -24.742 |
| 2400 | 195 | -15.018 | -10.199 | -9.2497 | -9.0193 | -10.548 | -2.741 | 2.50647 | 2.78822 | -0.8124 | -8.962 | -17.739 | -21.157 | -23.83 |
| 2400 | 210 | -14.013 | -10.002 | -8.3335 | -7.958 | -12.917 | -2.0756 | 3.2093 | 3.2223 | -0.3673 | -7.9396 | -16.58 | -20.901 | -23.251 |
| 2400 | 225 | -13.568 | -9.7953 | -7.5819 | -7.7468 | -15.931 | -0.8971 | 3.90798 | 3.54048 | -0.1751 | -7.6208 | -15.75 | -19.486 | -22.819 |
| 2400 | 240 | -13.739 | -9.7602 | -7.3471 | -8.3609 | -16.279 | -0.1333 | 4.19605 | 3.54788 | -0.2177 | -7.6797 | -15.471 | -17.835 | -22.626 |
| 2400 | 255 | -14.602 | -10.035 | -7.6051 | -9.8675 | -13.329 | 0.41794 | 4.23906 | 3.33348 | -0.4206 | -7.9244 | -15.442 | -16.059 | -22.617 |
| 2400 | 270 | -16.063 | -10.646 | -8.2911 | -11.734 | -10.997 | 0.67396 | 4.11134 | 3.01135 | -0.7484 | -8.4227 | -15.545 | -14.891 | -22.814 |
| 2400 | 285 | -18.91 | -11.809 | -9.6235 | -14.316 | -9.6094 | 0.69187 | 3.81984 | 2.55231 | -1.3013 | -9.633 | -15.735 | -14.197 | -23.304 |
| 2400 | 300 | -23.327 | -13.098 | -11.351 | -17.12 | -9.2313 | 0.50508 | 3.54522 | 2.24055 | -1.8595 | -11.535 | -15.882 | -14.245 | -23.957 |
| 2400 | 315 | -34.359 | -14.255 | -14.113 | -21.34 | -8.817 | 0.2368 | 3.34391 | 2.10938 | -2.5599 | -15.244 | -15.812 | -15.095 | -24.838 |
| 2400 | 330 | -26.861 | -14.229 | -16.813 | -22.455 | -7.7599 | 0.09912 | 3.17427 | 1.96017 | -3.4189 | -21.438 | -15.283 | -16.471 | -25.446 |
| 2400 | 345 | -20.139 | -13.105 | -16.991 | -18.28 | -6.1878 | 0.15494 | 2.85032 | 1.47276 | -4.8699 | -29.148 | -14.036 | -18.257 | -25.518 |
| 2400 | 360 | -17.43 | -12.077 | -14.782 | -15.816 | -5.2687 | 0.41609 | 2.6958 | 1.08636 | -5.9508 | -19.811 | -12.813 | -18.882 | -25.085 |
| 2450 | 0 | -16.981 | -11.815 | -14.288 | -15.407 | -5.0522 | 0.57986 | 2.7993 | 1.15197 | -5.974 | -18.79 | -12.499 | -20.06 | -24.885 |
| 2450 | 15 | -14.918 | -10.713 | -11.597 | -13.749 | -4.5081 | 1.22461 | 3.22126 | 1.42321 | -5.8481 | -14.064 | -10.803 | -19.141 | -24.018 |
| 2450 | 30 | -13.913 | -10.034 | -10.013 | -13.153 | -4.5248 | 1.76485 | 3.89974 | 2.2252 | -4.5682 | -11.959 | -9.4563 | -17.533 | -23.403 |
| 2450 | 45 | -13.486 | -9.5655 | -8.9727 | -12.967 | -4.878 | 2.05092 | 4.42018 | 2.98129 | -3.2471 | -10.817 | -8.3459 | -16.052 | -23.108 |
| 2450 | 60 | -13.639 | -9.2054 | -8.198 | -12.886 | -5.5662 | 2.03935 | 4.61432 | 3.54358 | -2.0874 | -10.268 | -7.466 | -14.825 | -23.248 |
| 2450 | 75 | -14.352 | -9.0033 | -7.7336 | -12.805 | -6.3148 | 1.87747 | 4.60599 | 3.87348 | -1.3276 | -10.295 | -7.1028 | -14.211 | -23.801 |
| 2450 | 90 | -15.963 | -8.9005 | -7.3973 | -12.885 | -7.1548 | 1.65945 | 4.60457 | 4.1356 | -0.7209 | -10.844 | -7.1989 | -14.043 | -24.877 |
| 2450 | 105 | -18.81 | -8.9613 | -7.3371 | -13.593 | -7.7155 | 1.3869 | 4.60384 | 4.19524 | -0.4593 | -12.037 | -7.8678 | -14.428 | -26.224 |
| 2450 | 120 | -23.227 | -9.1593 | -7.5998 | -15.146 | -7.8331 | 1.07589 | 4.36422 | 4.05798 | -0.5541 | -13.993 | -8.9559 | -15.182 | -27.213 |
| 2450 | 135 | -34.259 | -9.512 | -8.3066 | -18.091 | -7.6442 | 0.64202 | 3.95376 | 3.74761 | -0.9856 | -18.637 | -10.855 | -16.429 | -27.463 |
| 2450 | 150 | -26.761 | -9.8468 | -9.1732 | -18.698 | -7.4966 | 0.08696 | 3.49889 | 3.3692 | -1.4613 | -24.459 | -13.168 | -17.742 | -26.812 |
| 2450 | 165 | -20.039 | -10.128 | -9.9812 | -14.571 | -7.7585 | -0.9602 | 2.82779 | 2.88059 | -1.6867 | -16.15 | -16.322 | -19.309 | -25.637 |
| 2450 | 180 | -16.981 | -10.206 | -9.982 | -11.293 | -8.6114 | -2.096 | 2.38042 | 2.65152 | -1.3699 | -11.529 | -18.164 | -20.531 | -24.642 |
| 2450 | 195 | -14.918 | -10.099 | -9.1497 | -8.9193 | -10.448 | -2.641 | 2.60647 | 2.88822 | -0.7124 | -8.862 | -17.639 | -21.381 | -23.73 |
| 2450 | 210 | -13.913 | -9.9022 | -8.2335 | -7.858 | -12.817 | -1.9576 | 3.3093 | 3.3223 | -0.2673 | -7.8396 | -16.48 | -21.27 | -23.151 |
| 2450 | 225 | -13.468 | -9.6953 | -7.4819 | -7.6468 | -15.831 | -0.7971 | 4.00798 | 3.64048 | -0.0751 | -7.5208 | -15.65 | -20.081 | -22.719 |
| 2450 | 240 | -13.639 | -9.6602 | -7.2471 | -8.2609 | -16.179 | -0.0333 | 4.29605 | 3.64788 | -0.1177 | -7.5797 | -15.371 | -18.522 | -22.526 |
| 2450 | 255 | -14.502 | -9.9348 | -7.5051 | -9.7675 | -13.229 | 0.51794 | 4.33906 | 3.43348 | -0.3206 | -7.8244 | -15.342 | -16.758 | -22.517 |
| 2450 | 270 | -15.963 | -10.546 | -8.1911 | -11.634 | -10.897 | 0.77396 | 4.21134 | 3.11135 | -0.6484 | -8.3227 | -15.445 | -15.575 | -22.714 |
| 2450 | 285 | -18.81 | -11.709 | -9.5235 | -14.216 | -9.5094 | 0.79187 | 3.91984 | 2.65231 | -1.2013 | -9.533 | -15.635 | -14.861 | -23.204 |
| 2450 | 300 | -23.227 | -12.998 | -11.251 | -17.02 | -9.1313 | 0.60508 | 3.64522 | 2.34055 | -1.7595 | -11.435 | -15.782 | -14.896 | -23.857 |
| 2450 | 315 | -34.259 | -14.155 | -14.013 | -21.24 | -8.717 | 0.3368 | 3.44391 | 2.20938 | -2.4599 | -15.144 | -15.712 | -15.749 | -24.738 |
| 2450 | 330 | -26.761 | -14.129 | -16.713 | -22.355 | -7.6599 | 0.19912 | 3.27427 | 2.06017 | -3.3189 | -21.338 | -15.183 | -17.169 | -25.346 |
| 2450 | 345 | -20.039 | -13.005 | -16.891 | -18.18 | -6.0878 | 0.25494 | 2.95032 | 1.57276 | -4.7699 | -29.048 | -13.936 | -19.14 | -25.418 |
| 2450 | 360 | -17.33 | -11.977 | -14.682 | -15.716 | -5.1687 | 0.51609 | 2.7958 | 1.18636 | -5.8508 | -19.711 | -12.713 | -20.027 | -24.985 |
| 2500 | 0 | -17.301 | -12.135 | -14.608 | -15.727 | -5.3722 | 0.77825 | 2.4793 | 0.83197 | -6.294 | -19.11 | -12.819 | -19.091 | -25.205 |
| 2500 | 15 | -15.238 | -11.033 | -11.917 | -14.069 | -4.8281 | 1.40265 | 2.90126 | 1.10321 | -6.1681 | -14.384 | -11.123 | -17.934 | -24.338 |
| 2500 | 30 | -14.233 | -10.354 | -10.333 | -13.473 | -4.8448 | 1.97411 | 3.57974 | 1.9052 | -4.8882 | -12.279 | -9.7763 | -16.265 | -23.723 |
| 2500 | 45 | -13.806 | -9.8855 | -9.2927 | -13.287 | -5.198 | 2.30005 | 4.10018 | 2.66129 | -3.5671 | -11.137 | -8.6659 | -14.752 | -23.428 |
| 2500 | 60 | -13.959 | -9.5254 | -8.518 | -13.206 | -5.8862 | 2.3291 | 4.35532 | 3.22358 | -2.4074 | -10.588 | -7.786 | -13.49 | -23.568 |
| 2500 | 75 | -14.672 | -9.3233 | -8.0536 | -13.125 | -6.6348 | 2.2014 | 4.42599 | 3.55348 | -1.6476 | -10.615 | -7.4228 | -12.853 | -24.121 |
| 2500 | 90 | -16.283 | -9.2205 | -7.7173 | -13.205 | -7.4748 | 2.017 | 4.44457 | 3.8156 | -1.0409 | -11.164 | -7.5189 | -12.68 | -25.197 |
| 2500 | 105 | -19.13 | -9.2813 | -7.6571 | -13.913 | -8.0355 | 1.75748 | 4.31384 | 3.87524 | -0.7793 | -12.357 | -8.1878 | -13.095 | -26.544 |
| 2500 | 120 | -23.547 | -9.4793 | -7.9198 | -15.466 | -8.1531 | 1.4374 | 4.04422 | 3.73798 | -0.8741 | -14.313 | -9.2759 | -13.922 | -27.533 |
| 2500 | 135 | -34.579 | -9.832 | -8.6266 | -18.411 | -7.9642 | 0.98411 | 3.63376 | 3.42761 | -1.3056 | -18.957 | -11.175 | -15.34 | -27.783 |
| 2500 | 150 | -27.081 | -10.167 | -9.4932 | -19.018 | -7.8166 | 0.42325 | 3.17889 | 3.0492 | -1.7813 | -24.779 | -13.488 | -16.903 | -27.132 |
| 2500 | 165 | -20.359 | -10.448 | -10.301 | -14.891 | -8.0785 | -0.5879 | 2.50779 | 2.56059 | -2.0067 | -16.47 | -16.642 | -18.852 | -25.957 |
| 2500 | 180 | -17.301 | -10.526 | -10.302 | -11.613 | -8.9314 | -1.6088 | 2.06042 | 2.33152 | -1.6899 | -11.849 | -18.484 | -20.392 | -24.962 |
| 2500 | 195 | -15.238 | -10.419 | -9.4697 | -9.2393 | -10.768 | -1.9447 | 2.28647 | 2.56822 | -1.0324 | -9.182 | -17.959 | -21.377 | -24.05 |
| 2500 | 210 | -14.233 | -10.222 | -8.5535 | -8.178 | -13.137 | -1.1824 | 2.9893 | 3.0023 | -0.5873 | -8.1596 | -16.8 | -21.121 | -23.471 |
| 2500 | 225 | -13.788 | -10.015 | -7.8019 | -7.9668 | -16.151 | -0.0679 | 3.68798 | 3.32048 | -0.3951 | -7.8408 | -15.97 | -19.706 | -23.039 |
| 2500 | 240 | -13.959 | -9.9802 | -7.5671 | -8.5809 | -16.499 | 0.61747 | 3.97605 | 3.32788 | -0.4377 | -7.8997 | -15.691 | -18.055 | -22.846 |
| 2500 | 255 | -14.822 | -10.255 | -7.8251 | -10.087 | -13.549 | 1.07326 | 4.01906 | 3.11348 | -0.6406 | -8.1444 | -15.662 | -16.279 | -22.837 |
| 2500 | 270 | -16.283 | -10.866 | -8.5111 | -11.954 | -11.217 | 1.25568 | 3.89134 | 2.79135 | -0.9684 | -8.6427 | -15.765 | -15.111 | -23.034 |
| 2500 | 285 | -19.13 | -12.029 | -9.8435 | -14.536 | -9.8294 | 1.21682 | 3.59984 | 2.33231 | -1.5213 | -9.853 | -15.955 | -14.417 | -23.524 |
| 2500 | 300 | -23.547 | -13.318 | -11.571 | -17.34 | -9.4513 | 1.01087 | 3.32522 | 2.02055 | -2.0795 | -11.755 | -16.102 | -14.465 | -24.177 |
| 2500 | 315 | -34.579 | -14.475 | -14.333 | -21.56 | -9.037 | 0.73699 | 3.12391 | 1.88938 | -2.7799 | -15.464 | -16.032 | -15.315 | -25.058 |
| 2500 | 330 | -27.081 | -14.449 | -17.033 | -22.675 | -7.9799 | 0.56738 | 2.95427 | 1.74017 | -3.6389 | -21.658 | | | |

Ant. Position: 5G Ant.1_GAIN THETA

| 5G-Antenna 1 | | Frequent Phi\Theta | | | | | | | | | | | |
|--------------|---------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
| 5150 0 | -26.552 | -10.739 | -5.2841 | -2.8069 | -5.4839 | -4.8515 | 3.42854 | -1.5775 | -7.7846 | -10.205 | -10.198 | -18.292 | -27.661 |
| 5150 15 | -24.774 | -11.066 | -4.7829 | -2.5866 | -5.3624 | -3.5054 | 3.8584 | -1.0034 | -8.2677 | -12.317 | -11.322 | -17.381 | -27.671 |
| 5150 30 | -23.426 | -11.527 | -4.665 | -2.0525 | -4.8812 | -2.3078 | 4.45232 | -0.3309 | -7.6686 | -13.255 | -12.541 | -16.643 | -27.069 |
| 5150 45 | -22.784 | -11.678 | -4.7596 | -1.742 | -4.5772 | -1.9219 | 4.70316 | -0.0758 | -7.1717 | -12.608 | -13.229 | -16.297 | -26.448 |
| 5150 60 | -22.61 | -11.508 | -4.7403 | -1.7285 | -4.2406 | -1.8742 | 4.8401 | 0.20711 | -6.8548 | -12.026 | -14.126 | -15.979 | -25.836 |
| 5150 75 | -22.935 | -11.416 | -4.6166 | -1.9032 | -3.9265 | -2.0435 | 4.89147 | 0.49379 | -6.6521 | -11.956 | -14.539 | -15.403 | -25.401 |
| 5150 90 | -23.728 | -11.767 | -4.6916 | -2.2109 | -3.9116 | -2.6829 | 4.65168 | 0.42279 | -6.4251 | -12.185 | -13.826 | -14.488 | -25.041 |
| 5150 105 | -25.27 | -12.808 | -5.1263 | -2.7371 | -4.311 | -4.0874 | 4.05553 | -0.2063 | -6.1025 | -12.823 | -12.56 | -13.46 | -24.746 |
| 5150 120 | -27.226 | -13.859 | -5.448 | -3.27 | -4.6367 | -5.522 | 3.61783 | -0.7647 | -5.8318 | -14.024 | -11.972 | -12.998 | -24.677 |
| 5150 135 | -29.849 | -14.296 | -5.3848 | -3.9561 | -4.844 | -7.1541 | 3.21482 | -1.0252 | -5.9746 | -16.29 | -11.499 | -13.168 | -25.004 |
| 5150 150 | -30.931 | -13.724 | -5.1866 | -4.6585 | -5.1129 | -8.9821 | 2.6236 | -1.0725 | -6.6721 | -15.709 | -10.472 | -13.898 | -25.884 |
| 5150 165 | -29.153 | -12.693 | -5.2784 | -5.0348 | -5.3643 | -11.279 | 1.98084 | -0.8639 | -6.649 | -12.141 | -8.8955 | -15.394 | -28.051 |
| 5150 180 | -26.552 | -12.008 | -5.8813 | -4.6372 | -5.1247 | -11.863 | 2.16911 | -0.1121 | -4.8308 | -10.486 | -8.3075 | -17.66 | -32.812 |
| 5150 195 | -24.774 | -11.803 | -6.5799 | -4.1297 | -4.5649 | -11.126 | 2.73144 | 0.7824 | -3.0556 | -10.68 | -8.8269 | -19.895 | -45.339 |
| 5150 210 | -23.426 | -11.856 | -7.1233 | -3.6654 | -3.8136 | -10.09 | 3.12049 | 1.87289 | -1.7682 | -12.52 | -10.308 | -21.105 | -34.017 |
| 5150 225 | -22.784 | -12.059 | -7.3112 | -3.2391 | -3.1344 | -9.6928 | 3.32747 | 2.91081 | -1.4059 | -16.106 | -12.414 | -20.535 | -27.865 |
| 5150 240 | -22.6 | -12.39 | -7.4954 | -2.8357 | -2.6275 | -10.293 | 3.55992 | 3.72651 | -1.5069 | -22.468 | -14.554 | -19.455 | -24.611 |
| 5150 255 | -22.935 | -12.819 | -7.8428 | -2.557 | -2.4748 | -11.476 | 3.72381 | 4.04125 | -1.8549 | -30.558 | -15.265 | -18.279 | -22.548 |
| 5150 270 | -23.728 | -13.037 | -8.0131 | -2.3905 | -2.6351 | -11.49 | 3.78405 | 3.8452 | -2.2217 | -26.441 | -15.311 | -17.598 | -21.698 |
| 5150 285 | -25.27 | -12.917 | -7.9104 | -2.3191 | -3.0176 | -10.421 | 3.75162 | 3.29004 | -2.7443 | -19.359 | -15.738 | -17.443 | -21.576 |
| 5150 300 | -27.226 | -12.503 | -7.7653 | -2.4795 | -3.5369 | -9.3241 | 3.60443 | 2.49441 | -3.3202 | -15.364 | -15.11 | -17.896 | -22.111 |
| 5150 315 | -29.849 | -11.825 | -7.5595 | -2.7053 | -4.2072 | -7.8438 | 3.52539 | 1.21566 | -4.0816 | -12.019 | -13.229 | -18.917 | -23.355 |
| 5150 330 | -30.864 | -11.141 | -7.0097 | -2.7482 | -4.8043 | -6.6413 | 3.46204 | -0.2624 | -5.0882 | -9.6721 | -11.187 | -19.683 | -25.078 |
| 5150 345 | -29.478 | -10.791 | -6.3287 | -2.7549 | -5.1467 | -6.0137 | 3.36815 | -1.2039 | -6.0778 | -8.9882 | -10.114 | -19.461 | -26.408 |
| 5150 360 | -28.953 | -10.555 | -6.0049 | -2.5612 | -4.9951 | -3.0986 | 3.5568 | -1.1183 | -6.064 | -9.4575 | -9.817 | -18.02 | -26.406 |
| 5500 0 | -26.287 | -10.474 | -5.0191 | -2.5419 | -5.2189 | -2.2427 | 3.69354 | -1.3125 | -7.5196 | -10.723 | -9.9332 | -17.034 | -27.396 |
| 5500 15 | -24.509 | -10.801 | -4.5179 | -2.3216 | -5.0974 | -1.1329 | 4.1234 | -0.7384 | -8.0027 | -13.063 | -11.057 | -16.328 | -27.406 |
| 5500 30 | -23.161 | -11.262 | -4.4 | -1.7875 | -4.6162 | -0.0685 | 4.71732 | -0.0659 | -7.4036 | -14.433 | -12.276 | -15.701 | -26.804 |
| 5500 45 | -22.519 | -11.413 | -4.4946 | -1.477 | -4.3122 | 0.28009 | 4.96816 | 0.18923 | -6.9067 | -13.856 | -12.964 | -15.416 | -26.183 |
| 5500 60 | -22.345 | -11.243 | -4.4753 | -1.4635 | -3.9756 | 0.32442 | 5.1051 | 0.47211 | -6.5898 | -13.152 | -13.861 | -15.224 | -25.571 |
| 5500 75 | -22.67 | -11.151 | -4.3516 | -1.6382 | -3.6615 | 0.19303 | 5.15647 | 0.75879 | -6.3871 | -13.02 | -14.274 | -14.693 | -25.136 |
| 5500 90 | -23.463 | -11.502 | -4.4266 | -1.9459 | -3.6466 | -0.3434 | 4.89668 | 0.68779 | -6.1601 | -13.376 | -13.561 | -13.677 | -24.776 |
| 5500 105 | -25.005 | -12.543 | -4.8613 | -2.4721 | -4.046 | -1.4998 | 4.32053 | 0.05868 | -5.8375 | -14.362 | -12.295 | -12.488 | -24.481 |
| 5500 120 | -26.961 | -13.594 | -5.183 | -3.005 | -4.3717 | -2.5897 | 3.88283 | -0.4997 | -5.5668 | -15.828 | -11.707 | -11.941 | -24.412 |
| 5500 135 | -29.584 | -14.031 | -5.1198 | -3.6911 | -4.579 | -3.8019 | 3.47982 | -0.7602 | -5.7096 | -17.695 | -11.234 | -12.031 | -24.739 |
| 5500 150 | -30.666 | -13.459 | -4.9216 | -4.3935 | -4.8479 | -5.3317 | 2.8886 | -0.8075 | -6.4071 | -15.963 | -10.207 | -12.618 | -25.619 |
| 5500 165 | -28.888 | -12.428 | -5.0134 | -4.7698 | -5.0993 | -7.5357 | 2.24584 | -0.5989 | -6.384 | -12.305 | -8.6305 | -13.837 | -27.786 |
| 5500 180 | -26.287 | -11.743 | -5.6163 | -4.3722 | -4.8597 | -8.6 | 2.43411 | 0.15291 | -4.5658 | -10.609 | -8.0425 | -15.784 | -32.547 |
| 5500 195 | -24.509 | -11.538 | -6.3149 | -3.8647 | -4.2999 | -8.3879 | 2.99644 | 1.0474 | -2.7906 | -10.668 | -8.5619 | -17.878 | -45.074 |
| 5500 210 | -23.161 | -11.591 | -6.8583 | -3.4004 | -3.5486 | -7.8619 | 3.38549 | 2.13789 | -1.5032 | -12.477 | -10.043 | -19.611 | -33.752 |
| 5500 225 | -22.519 | -11.794 | -7.0462 | -2.9741 | -2.8694 | -7.5595 | 3.59247 | 3.17581 | -1.1409 | -16.309 | -12.149 | -20.037 | -27.6 |
| 5500 240 | -22.335 | -12.125 | -7.2304 | -2.5707 | -2.3625 | -7.741 | 3.82492 | 3.99151 | -1.2419 | -22.094 | -14.289 | -19.814 | -24.346 |
| 5500 255 | -22.67 | -12.554 | -7.5778 | -2.292 | -2.2098 | -8.0936 | 3.98881 | 4.30625 | -1.5899 | -23.362 | -15 | -19.065 | -22.283 |
| 5500 270 | -23.463 | -12.772 | -7.7481 | -2.1255 | -2.3701 | -7.7113 | 4.04905 | 4.1102 | -1.9567 | -24.836 | -15.046 | -18.326 | -21.433 |
| 5500 285 | -25.005 | -12.652 | -7.6454 | -2.0541 | -2.7526 | -6.6463 | 4.01662 | 3.55504 | -2.4793 | -21.583 | -15.473 | -17.803 | -21.311 |
| 5500 300 | -26.961 | -12.238 | -7.5003 | -2.2145 | -3.2719 | -5.6765 | 3.86943 | 2.75941 | -3.0552 | -16.278 | -14.845 | -17.782 | -21.846 |
| 5500 315 | -29.584 | -11.56 | -7.2945 | -2.4403 | -3.9422 | -4.4927 | 3.79039 | 1.48066 | -3.8166 | -12.304 | -12.964 | -18.226 | -23.09 |
| 5500 330 | -30.599 | -10.876 | -6.7447 | -2.4832 | -4.5393 | -5.3741 | 3.72704 | 0.00264 | -4.8232 | -9.9578 | -10.922 | -18.478 | -24.813 |
| 5500 345 | -29.213 | -10.526 | -6.0637 | -2.4899 | -4.8817 | -3.1077 | 3.63315 | -0.9389 | -5.8128 | -9.3761 | -9.849 | -18.062 | -26.143 |
| 5500 360 | -28.899 | -9.2587 | -5.8877 | -2.6237 | -6.6 | -6.0473 | 3.34248 | -0.3458 | -7.2848 | -9.1239 | -11.066 | -20.5 | -29.088 |
| 5850 0 | -25.627 | -9.0845 | -5.1112 | -2.8456 | -7.1342 | -5.0755 | 3.2721 | -0.6149 | -8.9221 | -10.429 | -11.203 | -19.483 | -26.576 |
| 5850 15 | -23.863 | -9.2104 | -4.585 | -2.6774 | -7.0915 | -3.7294 | 3.65118 | -0.1231 | -9.6908 | -12.541 | -12.182 | -18.475 | -24.798 |
| 5850 30 | -22.685 | -9.5151 | -4.3945 | -2.1248 | -6.6649 | -2.5318 | 4.19128 | 0.44214 | -9.4979 | -13.479 | -13.23 | -17.67 | -23.45 |
| 5850 45 | -22.159 | -9.5714 | -4.4643 | -1.7636 | -6.4264 | -2.1459 | 4.43078 | 0.65776 | -9.2491 | -12.832 | -13.755 | -17.244 | -22.808 |
| 5850 60 | -21.966 | -9.2679 | -4.5047 | -1.6918 | -6.0838 | -2.0982 | 4.59388 | 0.92677 | -9.1194 | -12.25 | -14.442 | -16.802 | -22.634 |
| 5850 75 | -22.055 | -9.0364 | -4.4528 | -1.8366 | -5.6703 | -2.2675 | 4.67976 | 1.19806 | -8.9884 | -12.18 | -14.657 | -16.221 | -22.959 |
| 5850 90 | -22.316 | -9.2675 | -4.5514 | -2.1504 | -5.5356 | -2.9069 | 4.4699 | 1.11087 | -8.673 | -12.409 | -13.851 | -15.454 | -23.752 |
| 5850 105 | -22.742 | -10.216 | -4.9414 | -2.7309 | -5.7637 | -4.3114 | 3.89753 | 0.48268 | -8.0596 | -13.047 | -12.573 | -14.643 | -25.294 |
| 5850 120 | -23.143 | -11.219 | -5.2039 | -3.3532 | -5.8379 | -5.746 | 3.47377 | -0.0622 | -7.4922 | -14.248 | -11.981 | -14.305 | -27.25 |
| 5850 135 | -23.485 | -11.707 | -5.137 | -4.1877 | -5.6954 | -7.3781 | 3.11054 | -0.3065 | -7.3616 | -16.514 | -11.514 | -14.562 | -29.873 |
| 5850 150 | -23.541 | -11.322 | -5.0104 | -5.008 | -5.7439 | -9.2061 | 2.6267 | -0.3082 | -7.8045 | -15.933 | -10.643 | -15.398 | -30.955 |
| 5850 165 | -23.247 | -10.624 | -5.1806 | -5.3631 | -5.925 | -11.503 | 2.19339 | -0.0089 | -7.3358 | -12.365 | -9.4445 | -17.098 | -29.177 |
| 5850 180 | -22.674 | -10.334 | -5.7731 | -4.8035 | -5.7012 | -12.087 | 2.53607 | 0.76398 | -5.3739 | -10.71 | -9.1634 | -19.632 | -26.576 |
| 5850 195 | -22.132 | -10.417 | -6.4098 | -4.1609 | -5.1183 | -11.35 | 3.13236 | 1.54317 | -3.7542 | -10.904 | -9.875 | -21.97 | -24.798 |
| 5850 210 | -21.671 | -10.598 | -6.8847 | -3.5975 | -4.322 | -10.314 | 3.52842 | 2.38764 | -2.7417 | -12.744 | -11.545 | -22.496 | -23.45 |
| 5850 225 | -21.531 | -10.757 | -7.0241 | -3.0969 | -3.6831 | -9.9168 | 3.76848 | 3.25847 | -2.6241 | -16.33 | -13.833 | -20.976 | -22.808 |
| 5850 240 | -21.725 | -11.006 | -7.1628 | -2.6092 | -3.3006 | -10.517 | 4.05271 | 4.0223 | -2.8899 | -22.692 | -16.142 | -19.271 | -22.624 |
| 5850 255 | -22.464 | -11.376 | -7.4491 | -2.2639 | -3.3002 | -11.7 | 4.24099 | 4.35019 | -3.2968 | -30.782 | -16.851 | -17.837 | -22.959 |
| 5850 270 | -23.696 | -11.571 | -7.5569 | -2.1 | -3.5441 | -11.714 | 4.25878 | 4.1769 | -3.7078 | -26.665 | -16.954 | -17.209 | -23.752 |
| 5850 285 | -26.059 | -11.458 | -7.4236 | -2.079 | -3.9827 | -10.645 | 4.12096 | 3.63415 | -4.3357 | -19.583 | -17.384 | -17.295 | -25.294 |
| 5850 300 | -29.441 | -11.117 | -7.3132 | -2.283 | -4.5734 | -9.5481 | 3.85339 | 2.85549 | -4.9434 | -15.588 | -16.41 | -18.059 | -27.25 |
| 5850 315 | -35.321 | -10.556 | -7.1751 | -2.5449 | -5.3795 | -8.0678 | 3.62134 | 1.68105 | -5.5606 | -12.243 | -14.347 | -19.497 | -29.873 |
| 5850 330 | -33.78 | -9.8757 | -6.702 | -2.6367 | -6.1503 | -6.8653 | 3.43447 | 0.42402 | -6.3366 | -9.8961 | -12.351 | -20.692 | -30.888 |
| 5850 345 | -29.553 | -9.4104 | -6.0895 | -2.6965 | -6.6201 | -6.2377 | 3.27364 | -0.344 | -7.2003 | -9.2122 | -11.262 | -20.675 | -29.502 |
| 5850 360 | -17.741 | -12.388 | -15.093 | -16.127 | -5.5797 | 0.63203 | 2.3848 | 0.77536 | -6.2618 | -20.122 | -13.124 | -19.193 | -25.396 |

Ant. Position: 2G Ant.2_GAIN PHI

| 2G-Antenna 2 | | | | | | | | | | | | | | | | | | | |
|--------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|
| Frequency | Phi\Theta | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | | | | | |
| 2400 | 0 | -27.355 | -18.63 | -15.708 | -13.325 | -12.123 | -11.53 | -11.501 | -12.163 | -13.396 | -15.831 | -19.476 | -26.366 | -28.877 | | | | | |
| 2400 | 15 | -11.812 | -10.446 | -9.7916 | -9.1402 | -8.6771 | -8.256 | -7.8508 | -7.6393 | -7.733 | -8.2923 | -9.2704 | -10.749 | -12.658 | | | | | |
| 2400 | 30 | -11.904 | -11.833 | -11.725 | -11.54 | -11.391 | -11.327 | -11.474 | -12.025 | -13.022 | -15.077 | -18.243 | -24.407 | -43.435 | | | | | |
| 2400 | 45 | -6.9379 | -5.5241 | -4.9819 | -4.681 | -4.729 | -4.983 | -5.4432 | -6.0307 | -6.6407 | -7.4991 | -8.5027 | -9.9006 | -11.873 | | | | | |
| 2400 | 60 | -2.4842 | -1.3881 | -0.8012 | -0.3354 | -0.1843 | -0.1857 | -0.2802 | -0.4255 | -0.6212 | -1.0471 | -1.759 | -2.9472 | -4.6901 | | | | | |
| 2400 | 75 | 2.43787 | 2.65409 | 3.00077 | 3.46213 | 3.70644 | 3.75099 | 3.59478 | 3.30747 | 3.01072 | 2.63231 | 2.24249 | 1.81245 | 1.46745 | | | | | |
| 2400 | 90 | 3.41926 | 2.99607 | 3.00135 | 3.37332 | 3.79736 | 4.08528 | 4.1363 | 3.91318 | 3.56831 | 3.10832 | 2.74205 | 2.50809 | 2.49433 | | | | | |
| 2400 | 105 | 0.16338 | -0.4506 | -0.6123 | -0.2781 | 0.33454 | 0.90807 | 1.27125 | 1.26579 | 1.01416 | 0.58 | 0.22681 | 0.04137 | 0.08277 | | | | | |
| 2400 | 120 | -6.0443 | -6.3999 | -6.7137 | -6.8886 | -6.5915 | -5.9897 | -5.3225 | -4.9819 | -5.0132 | -5.3052 | -5.5547 | -5.5637 | -5.2742 | | | | | |
| 2400 | 135 | -10.696 | -10.547 | -10.256 | -9.6494 | -8.9564 | -8.2126 | -7.5073 | -7.2011 | -7.4176 | -8.3201 | -9.6627 | -11.272 | -12.528 | | | | | |
| 2400 | 150 | -7.8575 | -7.1888 | -6.6301 | -5.8782 | -5.3214 | -4.9535 | -4.8781 | -5.2975 | -6.1689 | -7.8286 | -9.855 | -12.141 | -13.818 | | | | | |
| 2400 | 165 | -12.179 | -12.07 | -11.865 | -11.47 | -11.125 | -10.919 | -11.025 | -11.688 | -12.884 | -15.088 | -17.521 | -19.039 | -18.284 | | | | | |
| 2400 | 180 | -20.163 | -19.263 | -19.162 | -19.627 | -20.656 | -22.429 | -25.898 | -33.007 | -41.266 | -28.84 | -24.432 | -21.88 | -20.325 | | | | | |
| 2400 | 195 | -16.964 | -15.036 | -14.198 | -13.634 | -13.419 | -13.23 | -12.885 | -12.417 | -12.022 | -11.718 | -11.61 | -11.582 | -11.506 | | | | | |
| 2400 | 210 | -13.941 | -13.713 | -12.905 | -11.813 | -10.962 | -10.193 | -9.4373 | -8.8659 | -8.5468 | -8.3677 | -8.2958 | -8.1823 | -7.9126 | | | | | |
| 2400 | 225 | -12.461 | -12.392 | -12.098 | -11.952 | -12.083 | -12.257 | -12.259 | -12.042 | -11.86 | -11.864 | -12.106 | -12.481 | -12.798 | | | | | |
| 2400 | 240 | -5.216 | -4.6674 | -4.408 | -4.3232 | -4.5066 | -4.8834 | -5.4373 | -5.9518 | -6.2284 | -6.2718 | -6.1417 | -6.1016 | -6.025 | | | | | |
| 2400 | 255 | 0.54988 | 0.82251 | 1.04256 | 1.29573 | 1.46609 | 1.59695 | 1.6929 | 1.71707 | 1.68791 | 1.61369 | 1.4808 | 1.20954 | 0.76105 | | | | | |
| 2400 | 270 | 2.51303 | 2.88191 | 3.2471 | 3.72208 | 4.0423 | 4.25474 | 4.38955 | 4.44453 | 4.44419 | 4.37535 | 4.21053 | 3.90466 | 3.48205 | | | | | |
| 2400 | 285 | 0.90127 | 0.82014 | 1.19343 | 1.97343 | 2.63213 | 3.11909 | 3.42861 | 3.48933 | 3.34817 | 2.9779 | 2.52874 | 2.10792 | 1.9238 | | | | | |
| 2400 | 300 | -4.9776 | -7.3982 | -7.6738 | -5.9625 | -4.161 | -2.8178 | -1.9334 | -1.6818 | -1.9133 | -2.5345 | -3.0696 | -3.1469 | -2.5983 | | | | | |
| 2400 | 315 | -13.72 | -17.465 | -20.242 | -22.639 | -23.062 | -23.191 | -22.885 | -20.715 | -17.764 | -14.41 | -11.85 | -9.7204 | -8.0403 | | | | | |
| 2400 | 330 | -36.066 | -20.209 | -16.666 | -13.902 | -12.468 | -11.631 | -11.202 | -11.166 | -11.318 | -11.559 | -11.742 | -11.861 | -11.904 | | | | | |
| 2400 | 345 | -12.21 | -14.38 | -15.161 | -15.306 | -15.205 | -15.278 | -15.588 | -15.868 | -15.777 | -15.026 | -13.862 | -12.504 | -11.22 | | | | | |
| 2400 | 360 | -29.992 | -22.684 | -18.178 | -14.88 | -13.31 | -12.555 | -12.509 | -13.297 | -14.743 | -17.452 | -20.673 | -22.129 | -19.32 | | | | | |
| 2450 | 0 | -27.435 | -19.345 | -15.788 | -13.405 | -12.203 | -11.569 | -11.581 | -12.243 | -13.476 | -15.911 | -19.556 | -27.906 | -28.957 | | | | | |
| 2450 | 15 | -11.892 | -10.654 | -9.8716 | -9.2202 | -8.7571 | -8.2794 | -7.9308 | -7.7193 | -7.813 | -8.3723 | -9.3504 | -11.08 | -12.738 | | | | | |
| 2450 | 30 | -11.984 | -11.927 | -11.805 | -11.62 | -11.471 | -11.41 | -11.554 | -12.105 | -13.102 | -15.157 | -18.323 | -25.945 | -43.515 | | | | | |
| 2450 | 45 | -7.0179 | -5.7242 | -5.0619 | -4.761 | -4.809 | -5.112 | -5.5232 | -6.1107 | -6.7207 | -7.5791 | -8.5827 | -10.223 | -11.953 | | | | | |
| 2450 | 60 | -2.5642 | -1.5831 | -0.8812 | -0.4154 | -0.2643 | -0.2736 | -0.3602 | -0.5055 | -0.7012 | -1.1271 | -1.839 | -3.2426 | -4.7701 | | | | | |
| 2450 | 75 | 2.35787 | 2.52701 | 2.92077 | 3.38213 | 3.62644 | 3.66206 | 3.51478 | 3.22747 | 2.93072 | 2.55231 | 2.16249 | 1.67343 | 1.38745 | | | | | |
| 2450 | 90 | 3.33926 | 2.94185 | 2.92135 | 3.29332 | 3.71736 | 4.02852 | 4.0563 | 3.83318 | 3.48831 | 3.02832 | 2.66205 | 2.41107 | 2.14133 | | | | | |
| 2450 | 105 | 0.08338 | -0.4754 | -0.6923 | -0.3581 | 0.25454 | 0.89327 | 1.19125 | 1.18579 | 0.93416 | 0.5 | 0.14681 | -0.0465 | 0.00277 | | | | | |
| 2450 | 120 | -6.1243 | -6.4279 | -6.7937 | -6.9686 | -6.6715 | -5.9771 | -5.4025 | -5.0619 | -5.0932 | -5.3852 | -5.6347 | -5.6188 | -5.3542 | | | | | |
| 2450 | 135 | -10.776 | -10.66 | -10.336 | -9.7294 | -9.0364 | -8.1911 | -7.5873 | -7.2811 | -7.4976 | -8.4001 | -9.7427 | -11.572 | -12.608 | | | | | |
| 2450 | 150 | -7.9375 | -7.3559 | -6.7101 | -5.9582 | -5.4014 | -5.0016 | -4.9581 | -5.3775 | -6.2489 | -7.9086 | -9.935 | -12.526 | -13.898 | | | | | |
| 2450 | 165 | -12.259 | -12.174 | -11.945 | -11.55 | -11.205 | -10.989 | -11.105 | -11.768 | -12.964 | -15.168 | -17.601 | -19.141 | -18.364 | | | | | |
| 2450 | 180 | -20.243 | -19.397 | -19.242 | -19.707 | -20.736 | -22.841 | -25.978 | -33.087 | -41.346 | -28.92 | -24.512 | -21.687 | -20.405 | | | | | |
| 2450 | 195 | -17.044 | -15.298 | -14.278 | -13.714 | -13.499 | -13.276 | -12.965 | -12.497 | -12.102 | -11.798 | -11.69 | -11.658 | -11.586 | | | | | |
| 2450 | 210 | -14.021 | -13.904 | -12.985 | -11.893 | -11.042 | -10.171 | -9.5173 | -8.9459 | -8.6268 | -8.4477 | -8.3758 | -8.2355 | -7.9926 | | | | | |
| 2450 | 225 | -12.541 | -12.519 | -12.178 | -12.032 | -12.163 | -12.352 | -12.339 | -12.122 | -11.94 | -11.944 | -12.186 | -12.615 | -12.878 | | | | | |
| 2450 | 240 | -5.296 | -4.8032 | -4.488 | -4.4032 | -4.5866 | -5.0284 | -5.5173 | -6.0318 | -6.3084 | -6.3518 | -6.2217 | -6.0811 | -6.105 | | | | | |
| 2450 | 255 | 0.46988 | 0.70606 | 0.96256 | 1.21573 | 1.38609 | 1.53241 | 1.6129 | 1.63707 | 1.60791 | 1.53369 | 1.4008 | 1.07595 | 0.68105 | | | | | |
| 2450 | 270 | 2.43303 | 2.74668 | 3.1671 | 3.64208 | 3.9623 | 4.19718 | 4.30955 | 4.38453 | 4.36419 | 4.29535 | 4.13053 | 3.76945 | 3.40205 | | | | | |
| 2450 | 285 | 0.82127 | 0.70953 | 1.11343 | 1.89343 | 2.55213 | 3.09209 | 3.34861 | 3.40933 | 3.26817 | 2.8979 | 2.44874 | 1.98234 | 1.8438 | | | | | |
| 2450 | 300 | -5.0576 | -7.2798 | -7.7538 | -6.0425 | -4.241 | -2.7501 | -2.0134 | -1.7618 | -1.9933 | -2.6145 | -3.1496 | -3.1837 | -2.6783 | | | | | |
| 2450 | 315 | -13.8 | -17.083 | -20.322 | -22.719 | -23.142 | -23.286 | -22.965 | -20.795 | -17.844 | -14.49 | -11.93 | -9.5327 | -8.1203 | | | | | |
| 2450 | 330 | -36.146 | -21.101 | -16.746 | -13.982 | -12.548 | -11.63 | -11.282 | -11.246 | -11.398 | -11.639 | -11.822 | -11.952 | -11.984 | | | | | |
| 2450 | 345 | -12.29 | -14.263 | -15.241 | -15.386 | -15.285 | -15.387 | -15.668 | -15.948 | -15.857 | -15.106 | -13.942 | -12.391 | -11.3 | | | | | |
| 2450 | 360 | -30.072 | -23.827 | -18.258 | -14.96 | -13.39 | -12.584 | -12.589 | -13.377 | -14.823 | -17.532 | -20.753 | -21.997 | -19.4 | | | | | |
| 2500 | 0 | -27.505 | -18.78 | -15.858 | -13.475 | -12.273 | -11.639 | -11.651 | -12.313 | -13.546 | -15.981 | -19.626 | -27.976 | -29.027 | | | | | |
| 2500 | 15 | -11.962 | -10.596 | -9.9416 | -9.2902 | -8.8271 | -8.3494 | -8.0008 | -7.7893 | -7.883 | -8.4423 | -9.4204 | -11.15 | -12.808 | | | | | |
| 2500 | 30 | -12.054 | -11.983 | -11.875 | -11.69 | -11.541 | -11.48 | -11.624 | -12.175 | -13.172 | -15.227 | -18.393 | -26.015 | -43.585 | | | | | |
| 2500 | 45 | -7.0879 | -5.6741 | -5.1319 | -4.831 | -4.879 | -5.182 | -5.5932 | -6.1807 | -6.7907 | -7.6491 | -8.6527 | -10.293 | -12.023 | | | | | |
| 2500 | 60 | -2.6342 | -1.5381 | -0.9512 | -0.4854 | -0.3343 | -0.3436 | -0.4302 | -0.5755 | -0.7712 | -1.1971 | -1.909 | -3.3126 | -4.8401 | | | | | |
| 2500 | 75 | 2.28787 | 2.50409 | 2.85077 | 3.31213 | 3.55644 | 3.59206 | 3.44478 | 3.15747 | 2.86072 | 2.48231 | 2.09249 | 1.60343 | 1.31745 | | | | | |
| 2500 | 90 | 3.26926 | 2.84607 | 2.85135 | 3.22332 | 3.64736 | 3.95852 | 3.9863 | 3.76318 | 3.41831 | 2.95832 | 2.59205 | 2.34107 | 2.34433 | | | | | |
| 2500 | 105 | 0.01338 | -0.6006 | -0.7623 | -0.4281 | 0.18454 | 0.82327 | 1.12125 | 1.11579 | 0.86416 | 0.43 | 0.07681 | -0.1165 | -0.0672 | | | | | |
| 2500 | 120 | -6.1943 | -6.5499 | -6.8637 | -7.0386 | -6.7415 | -6.0471 | -5.4725 | -5.1319 | -5.1632 | -5.4552 | -5.7047 | -5.6888 | -5.4242 | | | | | |
| 2500 | 135 | -10.846 | -10.697 | -10.406 | -9.7994 | -9.1064 | -8.2611 | -7.6573 | -7.3511 | -7.5676 | -8.4701 | -9.8127 | -11.642 | -12.678 | | | | | |
| 2500 | 150 | -8.0075 | -7.3388 | -6.7801 | -6.0282 | -5.4714 | -5.0716 | -5.0281 | -5.4475 | -6.3189 | -7.9786 | -10.005 | -12.596 | -13.968 | | | | | |
| 2500 | 165 | -12.329 | -12.22 | -12.015 | -11.62 | -11.275 | -11.059 | -11.175 | -11.838 | -13.034 | -15.238 | -17.671 | -19.211 | -18.434 | | | | | |
| 2500 | 180 | -20.313 | -19.413 | -19.312 | -19.777 | -20.806 | -22.911 | -26.048 | -33.157 | -41.416 | -28.99 | -24.582 | -21.757 | -20.475 | | | | | |
| 2500 | 195 | -17.114 | -15.186 | -14.348 | -13.784 | -13.569 | -13.346 | -13.035 | -12.567 | -12.172 | -11.868 | -11.76 | -11.728 | -11.656 | | | | | |
| 2500 | 210 | -14.091 | -13.863 | -13.055 | -11.963 | -11.112 | -10.241 | -9.5873 | -9.0159 | -8.6968 | -8.5177 | -8.4458 | -8.3055 | -8.0626 | | | | | |
| 2500 | 225 | -12.611 | -12.542 | -12.248 | -12.102 | -12.233 | -12.422 | -12.409 | -12.192 | -12.01 | -12.014 | -12.256 | -12.685 | -12.948 | | | | | |
| 2500 | 240 | -5.366 | -4.8174 | -4.558 | -4.4732 | -4.6566 | -5.0984 | -5.5873 | -6.1018 | -6.3784 | -6.4218 | -6.2917 | -6.1511 | -6.175 | | | | | |
| 2500 | 255 | 0.39988 | 0.67251 | 0.89256 | 1.14573 | 1.31609 | 1.46241 | 1.5429 | 1.56707 | 1.53791 | 1.46369 | 1.3308 | 1.00595 | 0.61105 | | | | | |
| 2500 | 270 | 2.36303 | 2.73191 | 3.0971 | 3.57208 | 3.8923 | 4.12718 | 4.23955 | 4.29453 | 4.29419 | 4.22535 | 4.06053 | 3.69945 | 3.33205 | | | | | |
| 2500 | 285 | 0.75127 | 0.67014 | 1.04343 | 1.82343 | 2.48213 | 3.02209 | 3.27861 | 3.33933 | 3.19 | | | | | | | | | |

Ant. Position: 5G Ant.2_GAIN PHI

| 5G-Antenna2 | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 5150 0 | -21.16 | -21.1 | -21.213 | -21.496 | -23.928 | -22.192 | -22.495 | -22.578 | -22.425 | -22.126 | -21.717 | -21.397 | -21.18 |
| 5150 15 | -17.522 | -17.829 | -18.557 | -20.274 | -23.391 | -24.864 | -26.283 | -25.177 | -21.816 | -18.998 | -16.713 | -15.511 | -14.96 |
| 5150 30 | -17.712 | -20.543 | -24.15 | -25.423 | -24.386 | -23.967 | -24.013 | -23.921 | -22.607 | -21.088 | -20.043 | -19.864 | -19.938 |
| 5150 45 | -9.958 | -10.935 | -13.715 | -17.114 | -14.438 | -13.735 | -12.417 | -12.895 | -15.788 | -21.935 | -19.919 | -13.435 | -10.04 |
| 5150 60 | -6.1004 | -3.7785 | -1.9354 | -0.9606 | -0.0971 | -0.5146 | -0.6365 | -0.9153 | -1.3017 | -1.5219 | -1.6856 | -2.075 | -3.083 |
| 5150 75 | 0.34969 | 0.76012 | 1.65109 | 2.89982 | 4.02686 | 4.54467 | 4.59693 | 4.03072 | 2.82364 | 1.55782 | 0.27717 | -0.5605 | -1.1641 |
| 5150 90 | 2.29407 | 2.37484 | 2.11953 | 1.63867 | 0.86215 | 1.43313 | 1.41463 | 1.03473 | 0.38266 | 0.28565 | 0.98765 | 1.66357 | 1.95087 |
| 5150 105 | -10.16 | -11.777 | -10.299 | -8.4257 | -7.3335 | -7.9202 | -8.9544 | -10.236 | -10.737 | -9.5128 | -7.9923 | -7.6479 | -8.1409 |
| 5150 120 | -3.2308 | -2.9745 | -2.4458 | -1.895 | -1.4882 | -1.4053 | -1.4379 | -1.5806 | -1.7982 | -2.0415 | -2.5156 | -3.2433 | -4.2129 |
| 5150 135 | -1.7309 | -2.0207 | -2.3625 | -2.4794 | -2.4578 | -2.0889 | -2.0577 | -2.3837 | -3.0854 | -3.6509 | -3.6375 | -2.9063 | -1.8791 |
| 5150 150 | -4.962 | -4.8459 | -4.9031 | -5.3196 | -6.4408 | -6.7965 | -7.6016 | -7.9001 | -7.5687 | -6.8301 | -5.9295 | -5.4082 | -5.2368 |
| 5150 165 | -11.597 | -12.15 | -13.017 | -13.648 | -14.413 | -13.749 | -13.766 | -14.088 | -14.876 | -15.781 | -16.662 | -17.002 | -16.975 |
| 5150 180 | -17.063 | -16.605 | -16.724 | -17.551 | -18.858 | -21.304 | -26.019 | -35.019 | -30.426 | -23.988 | -20.228 | -18.309 | -17.173 |
| 5150 195 | -20.046 | -20.078 | -20.761 | -22.861 | -23.44 | -26.768 | -23.655 | -20.855 | -17.857 | -15.491 | -13.549 | -12.705 | -12.635 |
| 5150 210 | -5.2383 | -5.3683 | -5.5827 | -5.6334 | -4.8362 | -5.3511 | -5.2 | -5.1363 | -5.1267 | -5.1447 | -5.152 | -5.1017 | -4.9821 |
| 5150 225 | -1.729 | -0.7444 | 0.02444 | 0.36977 | 0.46172 | 0.30362 | 0.10991 | -0.1127 | -0.4348 | -0.7353 | -1.0221 | -1.2289 | -1.4825 |
| 5150 240 | -4.3487 | -4.9563 | -4.4153 | -3.1541 | -2.8299 | -1.8772 | -1.8823 | -2.1168 | -2.4536 | -2.7362 | -3.0292 | -3.2184 | -3.2461 |
| 5150 255 | -8.2223 | -8.0724 | -5.8924 | -3.4667 | -1.1443 | -1.2004 | -0.8868 | -1.0927 | -1.8673 | -3.016 | -4.8803 | -7.077 | -9.7758 |
| 5150 270 | 1.96044 | 1.95719 | 2.28383 | 3.22148 | 4.15434 | 4.76997 | 5.00688 | 4.78977 | 4.12157 | 3.30321 | 2.46556 | 2.17475 | 2.27011 |
| 5150 285 | -1.2277 | -1.4289 | -1.0624 | -0.4069 | -0.5532 | -0.07 | -0.5285 | -0.9977 | -1.1349 | -0.8261 | -0.3186 | 0.03401 | 0.30789 |
| 5150 300 | -3.2891 | -5.2541 | -8.5541 | -11.052 | -10.822 | -8.1938 | -7.1225 | -7.0732 | -7.7105 | -8.5815 | -9.3567 | -8.6728 | -6.4603 |
| 5150 315 | -9.7114 | -8.2225 | -7.9967 | -9.2033 | -11.501 | -14.627 | -18.034 | -18.706 | -17.205 | -14.712 | -11.901 | -10.354 | -9.9224 |
| 5150 330 | -19.928 | -19.526 | -18.555 | -17.732 | -17.946 | -17.09 | -16.521 | -15.706 | -14.774 | -14.331 | -14.554 | -15.543 | -17.377 |
| 5150 345 | -14.401 | -14.085 | -14.556 | -15.789 | -16.71 | -18.246 | -18.412 | -17.66 | -16.571 | -15.976 | -15.934 | -16.337 | -16.889 |
| 5150 360 | -17.428 | -17.195 | -17.506 | -18.238 | -20.229 | -19.534 | -19.908 | -20.19 | -20.771 | -21.68 | -23.262 | -25.071 | -26.982 |
| 5500 0 | -21.183 | -21.127 | -21.236 | -21.519 | -23.951 | -22.215 | -22.519 | -22.601 | -22.448 | -22.149 | -21.74 | -21.421 | -21.203 |
| 5500 15 | -17.545 | -17.905 | -18.58 | -20.297 | -23.414 | -24.887 | -26.307 | -25.201 | -21.839 | -19.021 | -16.736 | -15.534 | -14.983 |
| 5500 30 | -17.736 | -21.028 | -24.173 | -25.446 | -24.409 | -23.99 | -24.036 | -23.945 | -22.63 | -21.111 | -20.066 | -19.888 | -19.961 |
| 5500 45 | -9.9812 | -11.206 | -13.738 | -17.137 | -14.461 | -13.758 | -12.44 | -12.918 | -15.811 | -21.958 | -19.942 | -13.458 | -10.063 |
| 5500 60 | -6.1236 | -3.519 | -1.9586 | -0.9838 | -0.1203 | -0.5378 | -0.6597 | -0.9385 | -1.3249 | -1.5451 | -1.7088 | -2.1107 | -3.1062 |
| 5500 75 | 0.32649 | 0.82063 | 1.62789 | 2.87662 | 4.00366 | 4.52147 | 4.57373 | 4.00752 | 2.80044 | 1.53462 | 0.25397 | -0.5837 | -1.1873 |
| 5500 90 | 2.27087 | 2.34185 | 2.09633 | 1.61547 | 0.83895 | 1.40993 | 1.39143 | 1.01153 | 0.35946 | 0.26245 | 0.96445 | 1.64037 | 1.92767 |
| 5500 105 | -10.183 | -11.781 | -10.323 | -8.4489 | -7.3567 | -7.9434 | -8.9776 | -10.259 | -10.76 | -9.536 | -8.0155 | -7.6711 | -8.1641 |
| 5500 120 | -3.254 | -2.9418 | -2.469 | -1.9182 | -1.5114 | -1.4285 | -1.4611 | -1.6038 | -1.8214 | -2.0647 | -2.5388 | -3.2665 | -4.2361 |
| 5500 135 | -1.7541 | -2.0898 | -2.3857 | -2.5026 | -2.481 | -2.1121 | -2.0809 | -2.4069 | -3.1086 | -3.6741 | -3.6607 | -2.9295 | -1.9023 |
| 5500 150 | -4.9852 | -4.8613 | -4.9263 | -5.3428 | -6.464 | -6.8197 | -7.6248 | -7.9233 | -7.5919 | -6.8533 | -5.9527 | -5.4314 | -5.26 |
| 5500 165 | -11.62 | -12.277 | -13.04 | -13.671 | -14.436 | -13.772 | -13.789 | -14.112 | -14.9 | -15.804 | -16.685 | -17.025 | -16.998 |
| 5500 180 | -17.086 | -16.606 | -16.747 | -17.574 | -18.881 | -21.327 | -26.042 | -35.042 | -30.45 | -24.011 | -20.251 | -18.332 | -17.197 |
| 5500 195 | -20.069 | -20.134 | -20.784 | -22.884 | -23.463 | -26.791 | -23.679 | -20.878 | -17.88 | -15.514 | -13.572 | -12.728 | -12.658 |
| 5500 210 | -5.2615 | -5.4202 | -5.6059 | -5.6566 | -4.8594 | -5.3743 | -5.2232 | -5.1595 | -5.1499 | -5.1679 | -5.1752 | -5.1249 | -5.0053 |
| 5500 225 | -1.7522 | -0.648 | 0.00124 | 0.34657 | 0.43852 | 0.28042 | 0.08671 | -0.1359 | -0.458 | -0.7585 | -1.0453 | -1.2521 | -1.5057 |
| 5500 240 | -4.3719 | -4.9888 | -4.4385 | -3.1773 | -2.8531 | -1.9004 | -1.9055 | -2.14 | -2.4768 | -2.7594 | -3.0524 | -3.2416 | -3.2693 |
| 5500 255 | -8.2455 | -7.9211 | -5.9156 | -3.4899 | -1.1675 | -1.2236 | -0.91 | -1.1159 | -1.8905 | -3.0392 | -4.9035 | -7.1002 | -9.799 |
| 5500 270 | 1.93724 | 1.94243 | 2.26063 | 3.19828 | 4.13114 | 4.74677 | 4.98368 | 4.76657 | 4.09837 | 3.28001 | 2.44236 | 2.15155 | 2.24691 |
| 5500 285 | -1.2509 | -1.4399 | -1.0856 | -0.4301 | -0.5764 | -0.0932 | -0.5517 | -1.0209 | -1.1581 | -0.8493 | -0.3418 | 0.01081 | 0.28469 |
| 5500 300 | -3.3123 | -5.6356 | -8.5773 | -11.075 | -10.845 | -8.217 | -7.1457 | -7.0964 | -7.7337 | -8.6047 | -9.3799 | -8.696 | -6.4835 |
| 5500 315 | -9.7346 | -8.1366 | -8.0199 | -9.2265 | -11.525 | -14.65 | -18.057 | -18.729 | -17.228 | -14.735 | -11.924 | -10.377 | -9.9456 |
| 5500 330 | -19.952 | -19.445 | -18.578 | -17.756 | -17.969 | -17.113 | -16.545 | -15.729 | -14.797 | -14.355 | -14.577 | -15.566 | -17.401 |
| 5500 345 | -14.425 | -14.119 | -14.579 | -15.812 | -16.733 | -18.269 | -18.435 | -17.683 | -16.594 | -15.999 | -15.957 | -16.36 | -16.912 |
| 5500 360 | -17.451 | -17.226 | -17.529 | -18.261 | -20.252 | -19.557 | -19.931 | -20.213 | -20.794 | -21.704 | -23.285 | -25.094 | -27.005 |
| 5850 0 | -21.051 | -20.995 | -21.104 | -21.387 | -23.819 | -22.083 | -22.387 | -22.469 | -22.316 | -22.017 | -21.608 | -21.289 | -21.071 |
| 5850 15 | -17.413 | -17.773 | -18.448 | -20.165 | -23.282 | -24.755 | -26.175 | -25.069 | -21.707 | -18.889 | -16.604 | -15.402 | -14.851 |
| 5850 30 | -17.604 | -20.896 | -24.041 | -25.314 | -24.277 | -23.858 | -23.904 | -23.813 | -22.498 | -20.979 | -19.934 | -19.756 | -19.829 |
| 5850 45 | -9.8492 | -11.074 | -13.606 | -17.005 | -14.329 | -13.626 | -12.308 | -12.786 | -15.679 | -21.826 | -19.81 | -13.326 | -9.9314 |
| 5850 60 | -5.9916 | -3.387 | -1.8266 | -0.8518 | 0.01169 | -0.4058 | -0.5277 | -0.8065 | -1.1929 | -1.4131 | -1.5768 | -1.9787 | -2.9742 |
| 5850 75 | 0.45849 | 0.95263 | 1.75989 | 3.00862 | 4.13566 | 4.65347 | 4.70573 | 4.13952 | 2.93244 | 1.66662 | 0.38597 | -0.4517 | -1.0553 |
| 5850 90 | 2.40287 | 2.47385 | 2.22833 | 1.74747 | 0.97095 | 1.54193 | 1.52343 | 1.14353 | 0.49146 | 0.39445 | 1.09645 | 1.77237 | 2.05967 |
| 5850 105 | -10.051 | -11.649 | -10.191 | -8.3169 | -7.2247 | -7.8114 | -8.8456 | -10.127 | -10.628 | -9.404 | -7.8835 | -7.5391 | -8.0321 |
| 5850 120 | -3.122 | -2.8098 | -2.337 | -1.7862 | -1.3794 | -1.2965 | -1.3291 | -1.4718 | -1.6894 | -1.9327 | -2.4068 | -3.1345 | -4.1041 |
| 5850 135 | -1.6221 | -1.9578 | -2.2537 | -2.3706 | -2.349 | -1.9801 | -1.9489 | -2.2749 | -2.9766 | -3.5421 | -3.5287 | -2.7975 | -1.7703 |
| 5850 150 | -4.8532 | -4.7293 | -4.7943 | -5.2108 | -6.332 | -6.6877 | -7.4928 | -7.7913 | -7.4599 | -6.7213 | -5.8207 | -5.2994 | -5.128 |
| 5850 165 | -11.488 | -12.145 | -12.908 | -13.539 | -14.304 | -13.64 | -13.657 | -13.98 | -14.768 | -15.672 | -16.553 | -16.893 | -16.866 |
| 5850 180 | -16.954 | -16.474 | -16.615 | -17.442 | -18.749 | -21.195 | -25.91 | -34.91 | -30.318 | -23.879 | -20.119 | -18.2 | -17.065 |
| 5850 195 | -19.937 | -20.002 | -20.652 | -22.752 | -23.331 | -26.659 | -23.547 | -20.746 | -17.748 | -15.382 | -13.44 | -12.596 | -12.526 |
| 5850 210 | -5.1295 | -5.2882 | -5.4739 | -5.5246 | -4.7274 | -5.2423 | -5.0912 | -5.0275 | -5.0179 | -5.0359 | -5.0432 | -4.9929 | -4.8733 |
| 5850 225 | -1.6202 | -0.516 | 0.13324 | 0.47857 | 0.57052 | 0.41242 | 0.21871 | -0.0039 | -0.326 | -0.6265 | -0.9133 | -1.1201 | -1.3737 |
| 5850 240 | -4.2399 | -4.8568 | -4.3065 | -3.0453 | -2.7211 | -1.7684 | -1.7735 | -2.008 | -2.3448 | -2.6274 | -2.9204 | -3.1096 | -3.1373 |
| 5850 255 | -8.1135 | -7.7891 | -5.7836 | -3.3579 | -1.0355 | -1.0916 | -0.778 | -0.9839 | -1.7585 | -2.9072 | -4.7715 | -6.9682 | -9.667 |
| 5850 270 | 2.06924 | 2.07443 | 2.39263 | 3.33028 | 4.26314 | 4.87877 | 5.11568 | 4.89857 | 4.23037 | 3.41201 | 2.57436 | 2.28355 | 2.37891 |
| 5850 285 | -1.1189 | -1.3079 | -0.9536 | -0.2981 | -0.4444 | 0.03881 | -0.4197 | -0.8889 | -1.0261 | -0.7173 | -0.2098 | 0.14281 | 0.41669 |
| 5850 300 | -3.1803 | -5.5036 | -8.4453 | -10.943 | -10.713 | -8.085 | -7.0137 | -6.9644 | -7.6017 | -8.4727 | -9.2479 | -8.564 | -6.3515 |
| 5850 315 | -9.6026 | -8.0046 | -7.8879 | -9.0945 | -11.393 | -14.518 | -17.925 | -18.597 | -17.096 | -14.603 | -11.792 | -10.245 | -9.8136 |
| 5850 330 | -19.82 | -19.313 | -18.446 | -17.624 | -17.837 | -16.981 | -16.413 | -15.597 | -14.665 | -14.223 | -14.445 | -15.434 | -17.269 |
| 5850 345 | -14.293 | -13.987 | -14.447 | -15.68 | -16.601 | -18.137 | -18.303 | -17.551 | -16.462 | -15.867 | -15.825 | -16.228 | -16.78 |
| 5850 360 | -17.319 | -17.094 | -17.397 | -18.129 | -20.12 | -19.425 | -19.799 | -20.081 | -20.662 | -21.572 | -23.153 | -24.962 | -26.873 |

Ant. Position: 2G Ant.2_GAIN THETA

| 2G-Antenna 2 | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequency/Phi/Theta | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
| 2400 0 | -20.253 | -18.156 | -14.031 | -12.726 | -5.306 | 0.45988 | 2.42303 | 0.81127 | -5.0676 | -13.81 | -36.156 | -12.3 | -30.082 |
| 2400 15 | -19.407 | -16.47 | -13.914 | -12.894 | -4.8132 | 0.69606 | 2.73668 | 0.69953 | -7.2898 | -17.093 | -21.111 | -14.273 | -23.837 |
| 2400 30 | -19.252 | -15.544 | -12.995 | -12.52 | -4.498 | 0.95256 | 3.1571 | 1.10343 | -7.7638 | -20.332 | -16.756 | -15.251 | -18.268 |
| 2400 45 | -19.717 | -15.084 | -11.903 | -12.175 | -4.4132 | 1.20573 | 3.63208 | 1.88343 | -6.0525 | -22.729 | -13.992 | -15.396 | -14.97 |
| 2400 60 | -20.746 | -14.937 | -11.052 | -12.016 | -4.5966 | 1.37609 | 3.9523 | 2.54213 | -4.251 | -23.152 | -12.558 | -15.295 | -13.4 |
| 2400 75 | -22.519 | -14.763 | -10.283 | -11.83 | -4.9734 | 1.50695 | 4.16474 | 3.02909 | -2.9078 | -23.281 | -11.721 | -15.368 | -12.645 |
| 2400 90 | -25.988 | -14.337 | -9.5273 | -11.45 | -5.5273 | 1.6029 | 4.29955 | 3.33861 | -2.0234 | -22.975 | -11.292 | -15.678 | -12.599 |
| 2400 105 | -33.097 | -13.691 | -8.9559 | -10.976 | -6.0418 | 1.62707 | 4.35453 | 3.39933 | -1.7718 | -20.805 | -11.256 | -15.958 | -13.387 |
| 2400 120 | -41.356 | -13.103 | -8.6368 | -10.645 | -6.3184 | 1.59791 | 4.35419 | 3.25817 | -2.0033 | -17.854 | -11.408 | -15.867 | -14.833 |
| 2400 135 | -20.746 | -12.585 | -8.4577 | -10.483 | -6.3618 | 1.52369 | 4.28535 | 2.8879 | -2.6245 | -14.5 | -11.649 | -15.116 | -17.542 |
| 2400 150 | -24.522 | -12.341 | -8.3858 | -10.534 | -6.2317 | 1.3908 | 4.12053 | 2.43874 | -3.1596 | -11.94 | -11.832 | -13.952 | -20.763 |
| 2400 165 | -21.697 | -12.266 | -8.2455 | -10.7 | -6.0911 | 1.06595 | 3.75945 | 1.97234 | -3.1937 | -9.5427 | -11.962 | -12.401 | -22.007 |
| 2400 180 | -20.253 | -12.269 | -7.9475 | -10.786 | -6.1343 | 0.59599 | 3.39526 | 1.83666 | -2.5742 | -7.9271 | -11.994 | -11.142 | -18.913 |
| 2400 195 | -19.473 | -12.204 | -7.4504 | -10.7 | -6.3879 | 0.08237 | 2.96446 | 2.06084 | -1.7119 | -6.7566 | -11.949 | -10.119 | -15.837 |
| 2400 210 | -19.252 | -11.955 | -6.7201 | -10.346 | -6.8037 | -0.1656 | 2.91135 | 2.58586 | -0.8912 | -5.9298 | -11.815 | -9.262 | -13.364 |
| 2400 225 | -19.717 | -11.56 | -5.9682 | -9.7394 | -6.9786 | 0.22751 | 3.28332 | 3.08012 | -0.4254 | -5.5806 | -11.63 | -8.6623 | -11.768 |
| 2400 240 | -20.746 | -11.215 | -5.4114 | -9.0464 | -6.6815 | 0.87025 | 3.70736 | 3.32467 | -0.2743 | -5.5954 | -11.481 | -8.2554 | -10.912 |
| 2400 255 | -22.519 | -11.009 | -5.0435 | -8.3026 | -6.0797 | 1.44412 | 3.99528 | 3.36415 | -0.2757 | -5.8439 | -11.417 | -7.9024 | -10.475 |
| 2400 270 | -25.988 | -11.115 | -4.9681 | -7.5973 | -5.4125 | 1.78721 | 4.0463 | 3.21092 | -0.3702 | -6.348 | -11.564 | -7.5734 | -10.446 |
| 2400 285 | -31.799 | -11.658 | -5.3036 | -7.3001 | -5.0919 | 1.77897 | 3.86311 | 2.97685 | -0.4943 | -6.9404 | -12.017 | -7.419 | -10.84 |
| 2400 300 | -41.356 | -12.974 | -6.2589 | -7.5076 | -5.1032 | 1.48591 | 3.47831 | 2.65952 | -0.7112 | -7.7646 | -13.112 | -7.5156 | -11.894 |
| 2400 315 | -28.93 | -15.178 | -7.9186 | -8.4101 | -5.3952 | 1.03169 | 3.01832 | 2.28452 | -1.1371 | -8.7714 | -15.167 | -8.0378 | -13.622 |
| 2400 330 | -24.522 | -17.611 | -9.945 | -9.7527 | -5.6447 | 0.65571 | 2.65205 | 1.8621 | -1.849 | -9.897 | -18.333 | -8.938 | -16.149 |
| 2400 345 | -21.697 | -19.151 | -12.536 | -11.582 | -5.6288 | 0.42466 | 2.40107 | 1.27094 | -3.2526 | -11.659 | -25.955 | -10.523 | -21.194 |
| 2400 360 | -20.415 | -18.374 | -13.908 | -12.618 | -5.3642 | 0.4424 | 2.40433 | 0.86333 | -4.7801 | -13.462 | -43.525 | -12.034 | -28.558 |
| 2450 0 | -20.243 | -17.044 | -14.021 | -12.541 | -5.296 | 0.46988 | 2.43303 | 0.82127 | -5.0576 | -13.8 | -36.146 | -13.031 | -30.072 |
| 2450 15 | -19.397 | -15.298 | -13.904 | -12.519 | -4.8032 | 0.70606 | 2.74668 | 0.70953 | -7.2798 | -17.083 | -21.101 | -15.229 | -23.827 |
| 2450 30 | -19.242 | -14.278 | -12.985 | -12.178 | -4.488 | 0.96256 | 3.1671 | 1.11343 | -7.7538 | -20.322 | -16.746 | -16.394 | -18.258 |
| 2450 45 | -19.707 | -13.714 | -11.893 | -12.032 | -4.4032 | 1.21573 | 3.64208 | 1.89343 | -6.0425 | -22.719 | -13.982 | -16.796 | -14.96 |
| 2450 60 | -20.736 | -13.499 | -11.042 | -12.163 | -4.5866 | 1.38609 | 3.9623 | 2.55213 | -4.241 | -23.142 | -12.548 | -17.002 | -13.39 |
| 2450 75 | -22.509 | -13.31 | -10.273 | -12.337 | -4.9634 | 1.51695 | 4.17474 | 3.03909 | -2.8978 | -23.271 | -11.711 | -17.417 | -12.635 |
| 2450 90 | -25.978 | -12.965 | -9.5173 | -12.339 | -5.5173 | 1.6129 | 4.30955 | 3.34861 | -2.0134 | -22.965 | -11.282 | -18.017 | -12.589 |
| 2450 105 | -33.087 | -12.497 | -8.9459 | -12.122 | -6.0318 | 1.63707 | 4.36453 | 3.40933 | -1.7618 | -20.795 | -11.246 | -18.277 | -13.377 |
| 2450 120 | -41.346 | -12.102 | -8.6268 | -11.94 | -6.3084 | 1.60791 | 4.40419 | 3.26817 | -1.9933 | -17.844 | -11.398 | -17.867 | -14.823 |
| 2450 135 | -28.92 | -11.798 | -8.4477 | -11.944 | -6.3518 | 1.53369 | 4.29535 | 2.8979 | -2.6145 | -14.49 | -11.639 | -16.618 | -17.532 |
| 2450 150 | -24.512 | -11.69 | -8.3758 | -12.186 | -6.2217 | 1.4008 | 4.13053 | 2.44874 | -3.1496 | -11.93 | -11.822 | -15.098 | -20.753 |
| 2450 165 | -21.687 | -11.658 | -8.2355 | -12.615 | -6.0811 | 1.07595 | 3.76945 | 1.98234 | -3.1837 | -9.5327 | -11.952 | -13.286 | -21.997 |
| 2450 180 | -20.243 | -11.564 | -7.9375 | -12.906 | -6.1243 | 0.60599 | 3.33926 | 1.84666 | -2.5642 | -7.9171 | -11.984 | -11.892 | -18.903 |
| 2450 195 | -19.463 | -11.295 | -7.4404 | -12.915 | -6.3779 | 0.09237 | 2.97446 | 2.07084 | -1.7019 | -6.7466 | -11.939 | -10.787 | -15.827 |
| 2450 210 | -19.242 | -10.774 | -6.7101 | -12.48 | -6.7937 | -0.1556 | 2.92135 | 2.59586 | -0.8812 | -5.9198 | -11.805 | -9.8716 | -13.354 |
| 2450 225 | -19.707 | -10.164 | -5.9582 | -11.598 | -6.9686 | 0.23751 | 3.29332 | 3.09012 | -0.4154 | -5.5706 | -11.62 | -9.2202 | -11.758 |
| 2450 240 | -20.736 | -9.7037 | -5.4014 | -10.561 | -6.6715 | 0.88025 | 3.71736 | 3.33467 | -0.2643 | -5.5854 | -11.471 | -8.7571 | -10.902 |
| 2450 255 | -22.509 | -9.4354 | -5.0335 | -9.4665 | -6.0697 | 1.45412 | 4.00528 | 3.37415 | -0.2657 | -5.8339 | -11.407 | -8.336 | -10.465 |
| 2450 270 | -25.978 | -9.5089 | -4.9581 | -8.4377 | -5.4025 | 1.79721 | 4.0563 | 3.22092 | -0.3602 | -6.338 | -11.554 | -7.9308 | -10.436 |
| 2450 285 | -31.789 | -10.039 | -5.2936 | -7.9441 | -5.0819 | 1.78897 | 3.87311 | 2.98685 | -0.4843 | -6.9304 | -12.007 | -7.73 | -10.83 |
| 2450 300 | -41.346 | -11.346 | -6.2489 | -8.0051 | -5.0932 | 1.49591 | 3.48831 | 2.66952 | -0.7012 | -7.7546 | -13.102 | -7.813 | -11.834 |
| 2450 315 | -28.92 | -13.551 | -7.9086 | -8.8046 | -5.3852 | 1.04169 | 3.02832 | 2.29452 | -1.1271 | -8.7614 | -15.157 | -8.3723 | -13.612 |
| 2450 330 | -24.512 | -16.056 | -9.935 | -10.047 | -5.6347 | 0.66571 | 2.66205 | 1.8721 | -1.839 | -9.887 | -18.323 | -9.3504 | -16.139 |
| 2450 345 | -21.687 | -17.889 | -12.526 | -11.668 | -5.6188 | 0.43466 | 2.41107 | 1.28094 | -3.2426 | -11.649 | -25.945 | -11.08 | -21.184 |
| 2450 360 | -20.405 | -17.257 | -13.898 | -12.472 | -5.3542 | 0.4524 | 2.41433 | 0.87333 | -4.7701 | -13.452 | -43.515 | -12.738 | -28.548 |
| 2500 0 | -20.163 | -16.964 | -13.941 | -12.461 | -5.216 | 0.1051 | 2.51303 | 0.90127 | -4.9776 | -15.574 | -36.066 | -12.951 | -29.992 |
| 2500 15 | -19.317 | -15.218 | -13.824 | -12.439 | -4.7232 | 0.36943 | 2.82668 | 0.78953 | -7.1998 | -18.472 | -21.021 | -15.149 | -23.747 |
| 2500 30 | -19.162 | -14.198 | -12.905 | -12.098 | -4.408 | 0.6297 | 3.2471 | 1.19343 | -7.6738 | -19.534 | -16.666 | -16.314 | -18.178 |
| 2500 45 | -19.627 | -13.634 | -11.813 | -11.952 | -4.3232 | 0.86264 | 3.72208 | 1.97343 | -5.9625 | -18.434 | -13.902 | -16.716 | -14.88 |
| 2500 60 | -20.656 | -13.419 | -10.962 | -12.083 | -4.5066 | 0.99851 | 4.0423 | 2.63213 | -4.161 | -17.318 | -12.468 | -16.922 | -13.31 |
| 2500 75 | -22.429 | -13.23 | -10.193 | -12.257 | -4.8834 | 1.08707 | 4.25474 | 3.11909 | -2.8178 | -16.752 | -11.631 | -17.337 | -12.555 |
| 2500 90 | -25.898 | -12.885 | -9.4373 | -12.259 | -5.4373 | 1.13667 | 4.38955 | 3.42861 | -1.9334 | -16.595 | -11.202 | -17.937 | -12.509 |
| 2500 105 | -33.007 | -12.417 | -8.8659 | -12.042 | -5.9518 | 1.12656 | 4.44453 | 3.48933 | -1.6818 | -16.369 | -11.166 | -18.197 | -13.297 |
| 2500 120 | -41.266 | -12.022 | -8.5468 | -11.86 | -6.2284 | 1.08148 | 4.44419 | 3.34817 | -1.9133 | -15.602 | -11.318 | -17.787 | -14.743 |
| 2500 135 | -28.84 | -11.718 | -8.3677 | -11.864 | -6.2718 | 1.00741 | 4.37535 | 2.9779 | -2.5345 | -13.964 | -11.559 | -16.538 | -17.452 |
| 2500 150 | -24.432 | -11.61 | -8.2958 | -12.106 | -6.1417 | 0.89112 | 4.21053 | 2.52874 | -3.0696 | -12.194 | -11.742 | -15.018 | -20.673 |
| 2500 165 | -21.607 | -11.578 | -8.1555 | -12.535 | -6.0011 | 0.60041 | 3.84945 | 2.06234 | -3.1037 | -10.223 | -11.872 | -13.206 | -21.917 |
| 2500 180 | -20.163 | -11.484 | -7.8575 | -12.826 | -6.0443 | 0.16338 | 3.40926 | 1.92666 | -2.4842 | -8.7598 | -11.904 | -11.812 | -18.823 |
| 2500 195 | -19.383 | -11.215 | -7.3604 | -12.835 | -6.2979 | -0.3346 | 3.05446 | 2.15084 | -1.6219 | -7.6322 | -11.859 | -10.707 | -15.747 |
| 2500 210 | -19.162 | -10.694 | -6.6301 | -12.4 | -6.7137 | -0.6123 | 3.00135 | 2.67586 | -0.8012 | -6.7819 | -11.725 | -9.7916 | -13.274 |
| 2500 225 | -19.627 | -10.084 | -5.8782 | -11.518 | -6.8886 | -0.2781 | 3.37332 | 3.17012 | -0.3354 | -6.376 | -11.54 | -9.1402 | -11.678 |
| 2500 240 | -20.656 | -9.6237 | -5.3214 | -10.481 | -6.5915 | 0.33454 | 3.79736 | 3.41467 | -0.1843 | -6.3442 | -11.391 | -8.6771 | -10.822 |
| 2500 255 | -22.429 | -9.3554 | -4.9535 | -9.3865 | -5.9897 | 0.90807 | 4.08528 | 3.45415 | -0.1857 | -6.5722 | -11.327 | -8.256 | -10.385 |
| 2500 270 | -25.898 | -9.4289 | -4.8781 | -8.3577 | -5.3225 | 1.27125 | 4.1363 | 3.30092 | -0.2802 | -7.1055 | -11.474 | -7.8508 | -10.356 |
| 2500 285 | -31.709 | -9.9587 | -5.2136 | -7.8641 | -5.0019 | 1.28503 | 3.95311 | 3.06685 | -0.4043 | -7.7766 | -11.927 | -7.65 | -10.75 |
| 2500 300 | -41.266 | -11.266 | -6.1689 | -7.9251 | -5.0132 | 1.01416 | 3.56831 | 2.74952 | -0.6212 | -8.7458 | -13.022 | -7.733 | -11.754 |
| 2500 315 | -28.84 | -13.471 | -7.8286 | -8.7246 | -5.3052 | 0.58 | 3.10832 | 2.37452 | -1.0471 | -9.9396 | -15.077 | -8.2923 | -13.532 |
| 2500 330 | -24.432 | -15.976 | -9.855 | -9.9665 | -5.5547 | 0.22681 | 2.74205 | 1.9521 | -1.759 | -11.252 | -18.243 | -9.2704 | -16.059 |
| 2500 345 | -21.607 | -17.809 | -12.446 | -11.588 | -5.5388 | 0.03351 | 2.49107 | 1.36094 | -3.1626 | -13.25 | -25.865 | -11 | -21.104 |
| 2500 360 | -20.325 | -17.177 | -13.818 | -12.392 | -5.2742 | 0.08277 | 2.4943 | | | | | | |

Ant. Position: 5G Ant.2_GAIN THETA

| 5G-Antenna 2 | | | | | | | | | | | | | | |
|--------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequenc | Phi/Theta | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 |
| 5150 | 0 | -17.075 | -16.971 | -5.2505 | -1.7412 | -4.3609 | -8.2345 | 1.94824 | -0.4235 | -3.3013 | -9.7236 | -19.941 | -14.414 | -17.44 |
| 5150 | 15 | -16.617 | -16.951 | -5.3805 | -0.7566 | -4.9685 | -8.0846 | 1.94499 | -0.3246 | -5.2663 | -8.2347 | -19.538 | -14.097 | -17.207 |
| 5150 | 30 | -16.736 | -17.499 | -5.5949 | 0.01224 | -4.4275 | -5.9046 | 2.27163 | 0.14427 | -8.5663 | -8.0089 | -18.567 | -14.568 | -17.518 |
| 5150 | 45 | -17.417 | -18.828 | -5.6514 | 0.33486 | -3.321 | -3.742 | 3.07336 | 0.62749 | -10.96 | -8.9864 | -17.824 | -15.616 | -18.146 |
| 5150 | 60 | -18.982 | -21.314 | -5.5314 | 0.39379 | -2.2982 | -2.0319 | 4.1225 | 0.89755 | -10.006 | -11.449 | -17.366 | -17.176 | -18.98 |
| 5150 | 75 | -21.316 | -22.967 | -5.3633 | 0.29142 | -1.8894 | -1.2126 | 4.75777 | 0.74653 | -8.206 | -14.639 | -17.102 | -18.258 | -19.546 |
| 5150 | 90 | -26.031 | -21.572 | -5.2122 | 0.09771 | -1.8945 | -0.899 | 4.99468 | 0.24661 | -7.1347 | -18.046 | -16.534 | -18.424 | -19.92 |
| 5150 | 105 | -36.925 | -18.561 | -5.1443 | -0.1615 | -2.17 | -1.1702 | 4.71664 | -0.1995 | -7.1319 | -18.637 | -15.592 | -17.532 | -20.254 |
| 5150 | 120 | -30.439 | -16.03 | -5.1389 | -0.447 | -2.4658 | -1.8795 | 4.10937 | -0.2197 | -7.7227 | -17.217 | -14.786 | -16.583 | -20.783 |
| 5150 | 135 | -23.393 | -13.67 | -5.1596 | -0.7878 | -2.787 | -3.2281 | 3.17079 | 0.1576 | -8.7228 | -14.34 | -14.324 | -15.946 | -21.858 |
| 5150 | 150 | -20.24 | -12.277 | -5.1642 | -1.0343 | -3.0414 | -4.8925 | 2.45336 | 0.59325 | -9.3689 | -11.913 | -14.566 | -15.946 | -23.274 |
| 5150 | 165 | -18.321 | -11.589 | -5.1139 | -1.2411 | -3.2306 | -7.0892 | 2.16255 | 0.95912 | -8.685 | -10.366 | -15.555 | -16.349 | -25.083 |
| 5150 | 180 | -17.075 | -11.609 | -4.9742 | -1.5396 | -3.243 | -10.172 | 2.28187 | 1.2568 | -6.1126 | -9.9702 | -17.725 | -16.98 | -27.238 |
| 5150 | 195 | -16.595 | -12.266 | -4.8503 | -1.9717 | -2.9308 | -11.77 | 2.35285 | 1.58644 | -3.508 | -11.195 | -21.017 | -17.629 | -28.421 |
| 5150 | 210 | -16.736 | -13.029 | -4.9153 | -2.3269 | -2.458 | -10.312 | 2.10733 | 2.14593 | -1.9476 | -13.727 | -24.162 | -18.415 | -28.147 |
| 5150 | 225 | -17.563 | -13.66 | -5.3318 | -2.3928 | -1.9072 | -8.4379 | 1.62647 | 3.16525 | -0.9728 | -17.126 | -25.435 | -19.868 | -27.262 |
| 5150 | 240 | -18.982 | -13.82 | -5.9967 | -2.084 | -1.5682 | -7.7566 | 1.38672 | 4.09607 | -0.6156 | -16.235 | -24.596 | -21.638 | -26.769 |
| 5150 | 255 | -21.754 | -13.751 | -6.9239 | -1.6431 | -1.4108 | -8.0178 | 1.43276 | 4.75782 | -0.5297 | -13.477 | -23.948 | -23.765 | -26.814 |
| 5150 | 270 | -26.031 | -13.778 | -7.6138 | -1.5116 | -1.4501 | -8.9666 | 1.40243 | 4.76478 | -0.6487 | -12.429 | -24.025 | -24.767 | -27.131 |
| 5150 | 285 | -35.031 | -14.101 | -7.9123 | -1.7713 | -1.5928 | -10.248 | 1.02253 | 4.18667 | -0.9275 | -12.907 | -23.934 | -24.066 | -26.796 |
| 5150 | 300 | -30.439 | -14.889 | -7.5809 | -2.4979 | -1.8104 | -10.749 | 0.37046 | 2.93686 | -1.3139 | -15.8 | -22.619 | -21.764 | -24.714 |
| 5150 | 315 | -24 | -15.793 | -6.8423 | -3.2189 | -2.0537 | -9.525 | 0.27345 | 1.63822 | -1.5341 | -21.947 | -21.1 | -19.492 | -22.26 |
| 5150 | 330 | -20.24 | -16.674 | -5.9417 | -3.4922 | -2.5278 | -8.0045 | 0.97545 | 0.43712 | -1.6978 | -19.931 | -20.055 | -17.171 | -19.86 |
| 5150 | 345 | -18.321 | -17.014 | -5.4204 | -2.9205 | -3.2555 | -7.6601 | 1.65137 | -0.1585 | -2.0997 | -13.447 | -19.877 | -15.571 | -18.387 |
| 5150 | 360 | -17.186 | -16.987 | -5.249 | -1.8953 | -4.2251 | -8.1531 | 1.93867 | -0.4114 | -3.0952 | -10.052 | -19.95 | -14.514 | -17.517 |
| 5500 | 0 | -17.195 | -17.091 | -5.3705 | -1.8612 | -4.4809 | -8.3545 | 1.82824 | -0.5435 | -3.4213 | -9.8436 | -20.061 | -15.063 | -17.56 |
| 5500 | 15 | -16.737 | -17.071 | -5.5005 | -0.8766 | -5.0885 | -8.2046 | 1.82499 | -0.4446 | -5.3863 | -8.3547 | -19.658 | -15.199 | -17.327 |
| 5500 | 30 | -16.856 | -17.619 | -5.7149 | -0.1078 | -4.5475 | -6.0246 | 2.15163 | 0.02427 | -8.6863 | -8.1289 | -18.687 | -16.029 | -17.638 |
| 5500 | 45 | -17.537 | -18.948 | -5.7714 | 0.21486 | -3.441 | -3.862 | 2.95336 | 0.50749 | -11.08 | -9.1064 | -17.944 | -17.167 | -18.266 |
| 5500 | 60 | -19.102 | -21.434 | -5.6514 | 0.27379 | -2.4182 | -2.1519 | 4.0025 | 0.77755 | -10.126 | -11.569 | -17.486 | -18.339 | -19.1 |
| 5500 | 75 | -21.436 | -23.087 | -5.4833 | 0.17142 | -2.0094 | -1.3326 | 4.63777 | 0.62653 | -8.326 | -14.759 | -17.222 | -18.534 | -19.666 |
| 5500 | 90 | -26.151 | -21.692 | -5.3322 | -0.0223 | -2.0145 | -1.019 | 4.89468 | 0.12661 | -7.2547 | -18.166 | -16.654 | -17.653 | -20.04 |
| 5500 | 105 | -37.045 | -18.681 | -5.2643 | -0.2815 | -2.29 | -1.2902 | 4.59664 | -0.3195 | -7.2519 | -18.757 | -15.712 | -16.41 | -20.374 |
| 5500 | 120 | -30.559 | -16.15 | -5.2589 | -0.567 | -2.5858 | -1.9995 | 3.98937 | -0.3397 | -7.8427 | -17.337 | -14.906 | -15.662 | -20.903 |
| 5500 | 135 | -23.513 | -13.79 | -5.2796 | -0.9078 | -2.907 | -3.0123 | 3.05079 | 0.0376 | -8.8428 | -14.46 | -14.444 | -15.546 | -21.978 |
| 5500 | 150 | -20.36 | -12.397 | -5.2842 | -1.1543 | -3.1614 | -5.0125 | 2.33336 | 0.47325 | -9.4889 | -12.033 | -14.686 | -16.1 | -23.394 |
| 5500 | 165 | -18.441 | -11.709 | -5.2339 | -1.3611 | -3.3506 | -7.2092 | 2.04255 | 0.83912 | -8.805 | -10.486 | -15.675 | -16.954 | -25.203 |
| 5500 | 180 | -17.195 | -11.729 | -5.0942 | -1.6596 | -3.363 | -10.292 | 2.16187 | 1.1368 | -6.2326 | -10.09 | -17.845 | -17.654 | -27.358 |
| 5500 | 195 | -16.715 | -12.386 | -4.9703 | -2.0917 | -3.0508 | -11.89 | 2.23285 | 1.46644 | -3.628 | -11.315 | -21.137 | -18.014 | -28.541 |
| 5500 | 210 | -16.856 | -13.149 | -5.0353 | -2.4469 | -2.578 | -10.432 | 1.98733 | 2.02593 | -2.0676 | -13.847 | -24.282 | -18.689 | -28.267 |
| 5500 | 225 | -17.683 | -13.78 | -5.4518 | -2.5128 | -2.0272 | -8.5579 | 1.50647 | 3.04525 | -1.0928 | -17.246 | -25.555 | -20.406 | -27.382 |
| 5500 | 240 | -19.102 | -13.94 | -6.1167 | -2.204 | -1.6882 | -7.8766 | 1.26672 | 3.97607 | -0.7356 | -16.355 | -24.716 | -22.669 | -26.889 |
| 5500 | 255 | -21.874 | -13.871 | -7.0439 | -1.7631 | -1.5308 | -8.1378 | 1.31276 | 4.63782 | -0.6497 | -13.597 | -24.068 | -25.276 | -26.934 |
| 5500 | 270 | -26.151 | -13.898 | -7.7338 | -1.6316 | -1.5701 | -9.0866 | 1.28243 | 4.64478 | -0.7687 | -12.549 | -24.145 | -26.416 | -27.251 |
| 5500 | 285 | -35.151 | -14.221 | -8.0323 | -1.8913 | -1.7128 | -10.368 | 0.90253 | 4.06667 | -1.0475 | -13.027 | -24.054 | -25.31 | -26.916 |
| 5500 | 300 | -30.559 | -15.009 | -7.7009 | -2.6179 | -1.9304 | -10.869 | 0.25046 | 2.81686 | -1.4339 | -15.92 | -22.739 | -21.948 | -24.834 |
| 5500 | 315 | -24.12 | -15.913 | -6.9623 | -3.3389 | -2.1737 | -9.645 | 0.15345 | 1.51822 | -1.6541 | -22.067 | -21.22 | -19.13 | -22.38 |
| 5500 | 330 | -20.36 | -16.794 | -6.0617 | -3.6122 | -2.6478 | -8.1245 | 0.85545 | 0.31712 | -1.8178 | -20.051 | -20.175 | -16.845 | -19.98 |
| 5500 | 345 | -18.441 | -17.134 | -5.5404 | -3.0405 | -3.3755 | -7.7801 | 1.53137 | -0.2785 | -2.2197 | -13.567 | -19.997 | -15.643 | -18.507 |
| 5500 | 360 | -17.306 | -17.107 | -5.369 | -2.0153 | -4.3451 | -8.2731 | 1.81867 | -0.5314 | -3.2152 | -10.172 | -20.07 | -15.092 | -17.637 |
| 5850 | 0 | -17.234 | -20.218 | -5.41 | -1.9007 | -4.5204 | -8.394 | 1.78874 | -1.3994 | -3.4608 | -9.8831 | -20.1 | -15.103 | -17.6 |
| 5850 | 15 | -16.777 | -20.25 | -5.54 | -0.9161 | -5.128 | -8.2441 | 1.78549 | -1.6006 | -5.4258 | -8.3942 | -19.697 | -15.238 | -17.366 |
| 5850 | 30 | -16.896 | -20.933 | -5.7544 | -0.1473 | -4.587 | -6.0641 | 2.11213 | -1.2341 | -8.7258 | -8.1684 | -18.726 | -16.069 | -17.677 |
| 5850 | 45 | -17.577 | -22.676 | -5.8109 | 0.17536 | -3.4805 | -3.9015 | 2.91386 | -0.6554 | -11.12 | -9.1459 | -17.983 | -17.207 | -18.305 |
| 5850 | 60 | -19.141 | -26.016 | -5.6909 | 0.23429 | -2.4577 | -2.1914 | 3.963 | -0.212 | -10.166 | -11.608 | -17.525 | -18.379 | -19.139 |
| 5850 | 75 | -21.475 | -26.94 | -5.5228 | 0.13192 | -2.0489 | -1.3721 | 4.59827 | -0.2417 | -8.3655 | -14.798 | -17.262 | -18.573 | -19.705 |
| 5850 | 90 | -26.191 | -23.827 | -5.3717 | -0.0618 | -2.054 | -1.0585 | 4.83518 | -0.7002 | -7.2942 | -18.206 | -16.693 | -17.693 | -20.08 |
| 5850 | 105 | -37.085 | -20.647 | -5.3038 | -0.321 | -2.3295 | -1.3297 | 4.55714 | -1.2175 | -7.2914 | -18.796 | -15.751 | -16.45 | -20.414 |
| 5850 | 120 | -30.598 | -18.028 | -5.2984 | -0.6065 | -2.6253 | -2.039 | 3.94987 | -1.3066 | -7.8822 | -17.377 | -14.945 | -15.701 | -20.943 |
| 5850 | 135 | -23.553 | -15.367 | -5.3191 | -0.9473 | -2.9465 | -3.3876 | 3.01129 | -0.9355 | -8.8823 | -14.499 | -14.484 | -15.586 | -22.018 |
| 5850 | 150 | -20.399 | -13.721 | -5.3237 | -1.1938 | -3.2009 | -5.052 | 2.29386 | -0.4903 | -9.5284 | -12.073 | -14.726 | -16.14 | -23.434 |
| 5850 | 165 | -18.481 | -12.876 | -5.2734 | -1.4006 | -3.3901 | -7.2487 | 2.00305 | -0.1377 | -8.8445 | -10.525 | -15.714 | -16.994 | -25.243 |
| 5850 | 180 | -17.234 | -12.852 | -5.1337 | -1.6991 | -3.4025 | -10.332 | 2.12237 | 0.17799 | -6.2721 | -10.13 | -17.884 | -17.694 | -27.397 |
| 5850 | 195 | -16.755 | -13.585 | -5.0098 | -2.1312 | -3.0903 | -11.93 | 2.19335 | 0.67213 | -3.6675 | -11.355 | -21.176 | -18.054 | -28.58 |
| 5850 | 210 | -16.896 | -14.453 | -5.0748 | -2.4864 | -2.6175 | -10.471 | 1.94783 | 1.47939 | -2.1071 | -13.887 | -24.322 | -18.728 | -28.306 |
| 5850 | 225 | -17.722 | -15.123 | -5.4913 | -2.5523 | -2.0667 | -8.5974 | 1.46697 | 2.72812 | -1.1323 | -17.285 | -25.595 | -20.446 | -27.422 |
| 5850 | 240 | -19.141 | -15.211 | -6.1562 | -2.2435 | -1.7277 | -7.9161 | 1.22722 | 3.74316 | -0.7751 | -16.394 | -24.755 | -22.709 | -26.929 |
| 5850 | 255 | -21.913 | -15.059 | -7.0834 | -1.8026 | -1.5703 | -8.1773 | 1.27326 | 4.42066 | -0.6892 | -13.637 | -24.108 | -25.316 | -26.974 |
| 5850 | 270 | -26.191 | -15.115 | -7.7733 | -1.6711 | -1.6096 | -9.1261 | 1.24293 | 4.42523 | -0.8082 | -12.588 | -24.185 | -26.455 | -27.29 |
| 5850 | 285 | -35.191 | -15.598 | -8.0718 | -1.9308 | -1.7523 | -10.408 | 0.86303 | 3.85902 | -1.087 | -13.066 | -24.093 | -25.349 | -26.956 |
| 5850 | 300 | -30.598 | -16.736 | -7.7404 | -2.6574 | -1.9699 | -10.908 | 0.21096 | 2.65194 | -1.4734 | -15.96 | -22.779 | -21.988 | -24.873 |
| 5850 | 315 | -24.16 | -18.056 | -7.0018 | -3.3784 | -2.2132 | -9.6845 | 0.11395 | 1.38612 | -1.6936 | -22.106 | -21.26 | -19.169 | -22.42 |
| 5850 | 330 | -20.399 | -19.419 | -6.1012 | -3.6517 | -2.6873 | -8.164 | 0.81595 | 0.10547 | -1.8573 | -20.09 | -20.214 | -16.885 | -20.019 |
| 5850 | 345 | -18.481 | -20.075 | -5.579 | | | | | | | | | | |

Ant. Position: 2G Ant.3_GAIN PHI

| 2G-Antenna 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|
| Frequency | Phi | Theta | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | | | | | | | | | | | |
| 2400 | 0 | | -2.4674 | -2.692 | -3.4764 | -5.1967 | -7.7512 | -13.053 | -3.4764 | -14.87 | -9.1547 | -5.7126 | -3.9495 | -2.8308 | -2.487 | | | | | | | | | | | |
| 2400 | 15 | | -0.5175 | -0.6055 | -1.1882 | -2.6802 | -5.2117 | -11.409 | -1.1882 | -9.3816 | -4.7695 | -2.3715 | -1.5724 | -1.5308 | -1.8217 | | | | | | | | | | | |
| 2400 | 30 | | -0.7496 | -0.3181 | -0.6788 | -1.8706 | -3.9489 | -8.7156 | -0.6788 | -9.248 | -4.6986 | -2.2772 | -1.4793 | -1.4336 | -1.7763 | | | | | | | | | | | |
| 2400 | 45 | | -4.0852 | -3.5911 | -4.1984 | -5.3162 | -7.2596 | -12.557 | -4.1984 | -9.8352 | -5.9222 | -3.7812 | -3.2143 | -3.3704 | -3.563 | | | | | | | | | | | |
| 2400 | 60 | | -6.6921 | -6.3493 | -8.0309 | -10.236 | -11.831 | -16.271 | -8.0309 | -14.232 | -9.3101 | -6.5102 | -5.6864 | -5.8069 | -5.7859 | | | | | | | | | | | |
| 2400 | 75 | | -12.057 | -12.329 | -15.67 | -22.314 | -22.04 | -19.878 | -15.67 | -13.153 | -11.317 | -11.345 | -12.542 | -13.779 | -13.341 | | | | | | | | | | | |
| 2400 | 90 | | -17.544 | -13.76 | -12.062 | -12.826 | -16.56 | -22.678 | -12.062 | -15.439 | -14.977 | -18.068 | -23.435 | -25.411 | -25.406 | | | | | | | | | | | |
| 2400 | 105 | | -9.1808 | -8.6633 | -8.2899 | -8.8455 | -11.542 | -19.41 | -8.2899 | -17.93 | -16.614 | -16.085 | -15.029 | -15.022 | -15.58 | | | | | | | | | | | |
| 2400 | 120 | | -4.416 | -3.731 | -3.5141 | -4.253 | -6.6961 | -13.648 | -3.5141 | -13.135 | -9.4888 | -7.5118 | -6.9913 | -7.4821 | -7.9258 | | | | | | | | | | | |
| 2400 | 135 | | -1.3387 | -0.914 | -0.9324 | -1.8988 | -4.3933 | -11.288 | -0.9324 | -8.8266 | -4.6889 | -2.5635 | -2.1385 | -2.7873 | -3.4191 | | | | | | | | | | | |
| 2400 | 150 | | 1.4632 | 1.84344 | 1.52079 | 0.13835 | -2.482 | -9.0244 | 1.52079 | -6.6734 | -2.2188 | 0.18098 | 0.99735 | 1.01066 | 0.67997 | | | | | | | | | | | |
| 2400 | 165 | | 3.18685 | 3.30421 | 2.79108 | 1.29385 | -1.2057 | -6.8752 | 2.79108 | -7.2743 | -1.9169 | 1.15981 | 2.58874 | 3.30151 | 3.33465 | | | | | | | | | | | |
| 2400 | 180 | | 3.16798 | 3.15441 | 2.27966 | 0.41702 | -2.3525 | -8.3258 | 2.27966 | -7.9593 | -2.699 | 0.518 | 2.1635 | 3.18152 | 3.25918 | | | | | | | | | | | |
| 2400 | 195 | | 3.30275 | 2.67509 | 1.5523 | -0.5611 | -3.5282 | -9.5848 | 1.5523 | -8.4343 | -3.7354 | -0.5912 | 1.20416 | 2.54492 | 3.12503 | | | | | | | | | | | |
| 2400 | 210 | | 0.61157 | -0.0219 | -0.7938 | -2.2249 | -4.3119 | -8.3365 | -0.7938 | -10.93 | -6.6739 | -3.3543 | -1.2354 | 0.52208 | 1.36353 | | | | | | | | | | | |
| 2400 | 225 | | -4.0402 | -4.3021 | -4.5465 | -5.1527 | -6.0129 | -7.9746 | -4.5465 | -17.034 | -11.778 | -6.9851 | -4.4665 | -2.6043 | -1.806 | | | | | | | | | | | |
| 2400 | 240 | | -7.9911 | -8.8366 | -10.189 | -11.058 | -10.491 | -9.959 | -10.189 | -22.995 | -16.953 | -9.5462 | -7.1095 | -5.4574 | -4.5384 | | | | | | | | | | | |
| 2400 | 255 | | -9.7273 | -12.989 | -24.478 | -25.055 | -19.104 | -10.264 | -24.478 | -14.52 | -11.048 | -5.7041 | -4.3037 | -3.7177 | -3.255 | | | | | | | | | | | |
| 2400 | 270 | | -0.6884 | -1.3219 | -2.0938 | -3.5249 | -5.6119 | -9.6365 | -2.0938 | -12.23 | -7.9739 | -4.6543 | -2.5354 | -0.7779 | 0.06353 | | | | | | | | | | | |
| 2400 | 285 | | -4.1243 | -2.1462 | -1.6792 | -3.5333 | -7.7289 | -13.885 | -1.6792 | -10.443 | -8.9847 | -4.9069 | -4.5657 | -4.6564 | -3.2426 | | | | | | | | | | | |
| 2400 | 300 | | -5.7427 | -5.4221 | -6.0149 | -8.0564 | -10.334 | -12.158 | -6.0149 | -15.84 | -20.067 | -14.024 | -11.728 | -9.0976 | -6.9362 | | | | | | | | | | | |
| 2400 | 315 | | -3.7086 | -4.0702 | -5.092 | -6.9108 | -8.2952 | -9.3008 | -5.092 | -14.778 | -20.504 | -14.558 | -10.297 | -6.4686 | -4.5877 | | | | | | | | | | | |
| 2400 | 330 | | -1.8598 | -2.8344 | -4.217 | -6.3967 | -8.6448 | -11.526 | -4.217 | -18.62 | -14.142 | -8.2745 | -4.7392 | -2.0526 | -0.8791 | | | | | | | | | | | |
| 2400 | 345 | | -1.6704 | -2.4034 | -3.2073 | -4.663 | -6.9436 | -11.894 | -3.2073 | -11.245 | -6.5878 | -3.5109 | -1.8571 | -0.7156 | -0.2708 | | | | | | | | | | | |
| 2400 | 360 | | -2.5635 | -2.6727 | -3.3202 | -4.8599 | -7.2446 | -12.341 | -3.3202 | -15.134 | -8.9436 | -5.403 | -3.6512 | -2.5965 | -2.3217 | | | | | | | | | | | |
| 2450 | 0 | | -2.5374 | -2.762 | -3.5464 | -5.2667 | -7.8212 | -12.221 | -3.5464 | -14.94 | -9.2247 | -5.7826 | -4.0195 | -2.9008 | -2.557 | | | | | | | | | | | |
| 2450 | 15 | | -0.5875 | -0.6755 | -1.2582 | -2.7502 | -5.2817 | -10.327 | -1.2582 | -9.4516 | -4.8395 | -2.4415 | -1.6424 | -1.6008 | -1.8917 | | | | | | | | | | | |
| 2450 | 30 | | -0.8196 | -0.3881 | -0.7488 | -1.9406 | -4.0189 | -7.9694 | -0.7488 | -9.318 | -4.7686 | -2.3472 | -1.5493 | -1.5036 | -1.8463 | | | | | | | | | | | |
| 2450 | 45 | | -4.1552 | -3.6611 | -4.2684 | -5.3862 | -7.3296 | -11.689 | -4.2684 | -9.9052 | -5.9922 | -3.8512 | -3.2843 | -3.4404 | -3.633 | | | | | | | | | | | |
| 2450 | 60 | | -6.7621 | -6.4193 | -8.1009 | -10.306 | -11.901 | -15.491 | -8.1009 | -14.302 | -9.3801 | -6.5802 | -5.7564 | -5.8769 | -5.8559 | | | | | | | | | | | |
| 2450 | 75 | | -12.127 | -12.399 | -15.74 | -22.384 | -22.11 | -20.189 | -15.74 | -13.223 | -11.387 | -11.415 | -12.612 | -13.849 | -13.411 | | | | | | | | | | | |
| 2450 | 90 | | -17.614 | -13.83 | -12.132 | -12.896 | -16.63 | -22.943 | -12.132 | -15.509 | -15.047 | -18.138 | -23.505 | -25.481 | -25.476 | | | | | | | | | | | |
| 2450 | 105 | | -9.2508 | -8.7333 | -8.3599 | -8.9155 | -11.612 | -18.054 | -8.3599 | -18 | -16.684 | -16.155 | -15.099 | -15.092 | -15.65 | | | | | | | | | | | |
| 2450 | 120 | | -4.486 | -3.801 | -3.5841 | -4.323 | -6.7661 | -12.409 | -3.5841 | -13.205 | -9.5588 | -7.5818 | -7.0613 | -7.5521 | -7.9958 | | | | | | | | | | | |
| 2450 | 135 | | -1.4087 | -0.984 | -1.0024 | -1.9688 | -4.4633 | -10.046 | -1.0024 | -8.8966 | -4.7589 | -2.6335 | -2.2085 | -2.8573 | -3.4891 | | | | | | | | | | | |
| 2450 | 150 | | 1.3932 | 1.77344 | 1.45079 | 0.06835 | -2.552 | -7.877 | 1.45079 | -6.7434 | -2.2888 | 0.11098 | 0.92735 | 0.94066 | 0.60997 | | | | | | | | | | | |
| 2450 | 165 | | 3.11685 | 3.23421 | 2.72108 | 1.22385 | -1.2757 | -5.9388 | 2.72108 | -7.3443 | -1.9869 | 1.08981 | 2.51874 | 3.23151 | 3.26465 | | | | | | | | | | | |
| 2450 | 180 | | 3.39798 | 3.08441 | 2.20966 | 0.34702 | -2.4225 | -7.3451 | 2.20966 | -8.0293 | -2.769 | 0.448 | 2.0935 | 3.11152 | 3.38918 | | | | | | | | | | | |
| 2450 | 195 | | 3.23275 | 2.60509 | 1.4823 | -0.6311 | -3.5982 | -8.6301 | 1.4823 | -8.5043 | -3.8054 | -0.6612 | 1.13416 | 2.47492 | 3.05503 | | | | | | | | | | | |
| 2450 | 210 | | 0.54157 | -0.0919 | -0.8638 | -2.2949 | -4.3819 | -7.7775 | -0.8638 | -11 | -6.7439 | -3.4243 | -1.3054 | 0.45208 | 1.29353 | | | | | | | | | | | |
| 2450 | 225 | | -4.1102 | -4.3721 | -4.6165 | -5.2227 | -6.0829 | -7.701 | -4.6165 | -17.104 | -11.848 | -7.0551 | -4.5365 | -2.6743 | -1.876 | | | | | | | | | | | |
| 2450 | 240 | | -8.0611 | -8.9066 | -10.259 | -11.128 | -10.561 | -9.994 | -10.259 | -23.065 | -17.023 | -9.6162 | -7.1795 | -5.5274 | -4.6084 | | | | | | | | | | | |
| 2450 | 255 | | -9.7973 | -13.059 | -24.548 | -25.125 | -19.174 | -10.964 | -24.548 | -14.59 | -11.118 | -5.7741 | -4.3737 | -3.7877 | -3.325 | | | | | | | | | | | |
| 2450 | 270 | | -0.4584 | -1.0919 | -1.8638 | -3.2949 | -5.3819 | -8.7775 | -1.8638 | -12 | -7.7439 | -4.4243 | -2.3054 | -0.5479 | 0.29353 | | | | | | | | | | | |
| 2450 | 285 | | -4.1943 | -2.2162 | -1.7492 | -3.6033 | -7.7989 | -13.793 | -1.7492 | -10.513 | -9.0547 | -4.9769 | -4.6357 | -4.7264 | -3.3126 | | | | | | | | | | | |
| 2450 | 300 | | -5.8127 | -5.4921 | -6.0849 | -8.1264 | -10.404 | -12.085 | -6.0849 | -15.91 | -20.137 | -14.094 | -11.798 | -9.1676 | -7.0062 | | | | | | | | | | | |
| 2450 | 315 | | -3.7786 | -4.1402 | -5.162 | -6.9808 | -8.3652 | -9.2499 | -5.162 | -14.848 | -20.574 | -14.628 | -10.367 | -6.5386 | -4.6577 | | | | | | | | | | | |
| 2450 | 330 | | -1.9298 | -2.9044 | -4.287 | -6.4667 | -8.7148 | -11.204 | -4.287 | -18.69 | -14.212 | -8.3445 | -4.8092 | -2.1226 | -0.9491 | | | | | | | | | | | |
| 2450 | 345 | | -1.7404 | -2.4734 | -3.2773 | -4.733 | -7.0136 | -11.136 | -3.2773 | -11.315 | -6.6578 | -3.5809 | -1.9271 | -0.7856 | -0.3408 | | | | | | | | | | | |
| 2450 | 360 | | -2.6335 | -2.7427 | -3.3902 | -4.9299 | -7.3146 | -11.533 | -3.3902 | -15.204 | -9.0136 | -5.473 | -3.7212 | -2.6665 | -2.3917 | | | | | | | | | | | |
| 2500 | 0 | | -3.0074 | -3.232 | -4.0164 | -5.7367 | -8.2912 | -13.593 | -4.0164 | -15.41 | -9.6947 | -6.2526 | -4.4895 | -3.3708 | -3.027 | | | | | | | | | | | |
| 2500 | 15 | | -1.0575 | -1.1455 | -1.7282 | -3.2202 | -5.7517 | -11.949 | -1.7282 | -9.9216 | -5.3095 | -2.9115 | -2.1124 | -2.0708 | -2.3617 | | | | | | | | | | | |
| 2500 | 30 | | -1.2896 | -0.8581 | -1.2188 | -2.4106 | -4.4889 | -9.2556 | -1.2188 | -9.788 | -5.2386 | -2.8172 | -2.0193 | -1.9736 | -2.3163 | | | | | | | | | | | |
| 2500 | 45 | | -4.6252 | -4.1311 | -4.7384 | -5.8562 | -7.7996 | -13.097 | -4.7384 | -10.375 | -6.4622 | -4.3212 | -3.7543 | -3.9104 | -4.103 | | | | | | | | | | | |
| 2500 | 60 | | -7.2321 | -6.8893 | -8.5709 | -10.776 | -12.371 | -16.811 | -8.5709 | -14.772 | -9.8501 | -7.0502 | -6.2264 | -6.3469 | -6.3259 | | | | | | | | | | | |
| 2500 | 75 | | -12.597 | -12.869 | -16.21 | -22.854 | -22.58 | -20.418 | -16.21 | -13.693 | -11.857 | -11.885 | -13.082 | -14.319 | -13.881 | | | | | | | | | | | |
| 2500 | 90 | | -18.084 | -14.3 | -12.602 | -13.366 | -17.1 | -23.218 | -12.602 | -15.979 | -15.517 | -18.608 | -23.975 | -25.951 | -25.946 | | | | | | | | | | | |
| 2500 | 105 | | -9.7208 | -9.2033 | -8.8299 | -9.3855 | -12.082 | -19.95 | -8.8299 | -18.47 | -17.154 | -16.625 | -15.569 | -15.562 | -16.12 | | | | | | | | | | | |
| 2500 | 120 | | -4.956 | -4.271 | -4.0541 | -4.793 | -7.2361 | -14.188 | -4.0541 | -13.675 | -10.029 | -8.0518 | -7.5313 | -8.0221 | -8.4658 | | | | | | | | | | | |
| 2500 | 135 | | -1.8787 | -1.454 | -1.4724 | -2.4388 | -4.9333 | -11.828 | -1.4724 | -9.3666 | -5.2289 | -3.1035 | -2.6785 | -3.3273 | -3.9591 | | | | | | | | | | | |
| 2500 | 150 | | 0.9232 | 1.30344 | 0.98079 | -0.4017 | -3.022 | -9.5644 | 0.98079 | -7.2134 | -2.7588 | -0.359 | 0.45735 | 0.47066 | 0.13997 | | | | | | | | | | | |
| 2500 | 165 | | 2.64685 | 2.76421 | 2.25108 | 0.75385 | -1.7457 | -7.4152 | 2.25108 | -7.8143 | -2.4569 | 0.61981 | 2.04874 | 2.76151 | 2.79465 | | | | | | | | | | | |
| 2500 | 180 | | 2.92798 | 2.61441 | 1.73966 | -0.123 | -2.8925 | -8.8658 | 1.73966 | -8.4993 | -3.239 | -0.022 | 1.6235 | 2.64152 | 2.91918 | | | | | | | | | | | |
| 2500 | 195 | | 2.76275 | 2.13509 | 1.0123 | -1.1011 | -4.0682 | -10.125 | 1.0123 | -8.9743 | -4.2754 | -1.1312 | 0.66416 | 2.00492 | 2.58503 | | | | | | | | | | | |
| 2500 | 210 | | 0.07157 | -0.5619 | -1.3338 | -2.7649 | -4.8519 | -8.8765 | -1.3338 | -11.47 | -7.2139 | -3.8943 | -1.7754 | -0.0179 | 0.82353 | | | | | | | | | | | |
| 2500 | 225 | | -4.5802 | -4.8421 | -5.0865 | -5.6927 | -6.5529 | -8.5146 | -5.0865 | -17.574 | -12.318 | -7.5251 | -5.0065 | -3.1443 | -2.346 | | | | | | | | | | | |
| 2500 | 240 | | -8.5311 | -9.3766 | -10.729 | -11.598 | -11.031 | -10.499 | -10.729 | -23.535 | -17.493 | -10.086 | -7.6495 | -5.9974 | -5.0784 | | | | | | | | | | | |
| 2500 | 255 | | -9.2673 | -12.529 | -24.018 | -24.595 | -18.644 | -9.804 | -24.018 | -14.06 | -10.588 | -5.2441 | -3.8437 | -3.2577 | -2.795 | | | | | | | | | | | |
| 2500 | 270 | | -0.9284 | -1.5619 | -2.3338 | -3.7649 | | | | | | | | | | | | | | | | | | | | |

Ant. Position: 2G Ant.3_GAIN THETA

| 2G-Antenna 3 | | | | | | | | | | | | | | | | | | |
|---------------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|
| Frequency Phi\Theta | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | | | | | |
| 2400 | 0 | 3.46798 | 3.27275 | 0.58157 | -4.0702 | -8.0211 | -15.757 | -0.2184 | -13.154 | -5.7727 | -3.7386 | -1.8898 | -1.9128 | -2.0428 | | | | |
| 2400 | 15 | 3.20172 | 2.7601 | 0.03712 | -4.3122 | -8.7119 | -18.297 | -0.7629 | -11.378 | -5.4567 | -4.0169 | -2.7096 | -2.3876 | -2.5176 | | | | |
| 2400 | 30 | 2.24966 | 1.5223 | -0.8238 | -4.5765 | -10.219 | -30.508 | -1.6238 | -10.709 | -6.0449 | -5.122 | -4.247 | -3.1056 | -3.2356 | | | | |
| 2400 | 45 | 0.38702 | -0.5911 | -2.2549 | -5.1827 | -11.088 | -31.085 | -3.0549 | -12.563 | -8.0864 | -6.9408 | -6.4267 | -4.4246 | -4.5546 | | | | |
| 2400 | 60 | -2.3825 | -3.5582 | -4.3419 | -6.0429 | -10.521 | -25.134 | -5.1419 | -16.759 | -10.364 | -8.3252 | -8.6748 | -6.6458 | -6.7758 | | | | |
| 2400 | 75 | -8.3558 | -9.6148 | -8.3665 | -8.0046 | -9.989 | -16.294 | -9.1665 | -22.915 | -12.188 | -9.3308 | -11.556 | -11.721 | -11.851 | | | | |
| 2400 | 90 | -22.881 | -17.821 | -13.182 | -11.709 | -11.897 | -15.085 | -13.982 | -19.526 | -12.888 | -10.666 | -14.859 | -19.409 | -19.539 | | | | |
| 2400 | 105 | -9.1362 | -9.4176 | -11.653 | -16.992 | -20.228 | -19.596 | -12.453 | -19.274 | -15.221 | -14.046 | -18.554 | -12.343 | -12.473 | | | | |
| 2400 | 120 | -2.729 | -3.7654 | -6.7039 | -11.808 | -16.983 | -17.078 | -7.5039 | -18.015 | -20.097 | -20.534 | -14.172 | -6.4943 | -6.6243 | | | | |
| 2400 | 135 | 0.488 | -0.6212 | -3.3843 | -7.0151 | -9.5762 | -11.734 | -4.1843 | -13.937 | -14.054 | -14.588 | -8.3045 | -3.458 | -3.588 | | | | |
| 2400 | 150 | 2.1335 | 1.17416 | -1.2654 | -4.4965 | -7.1395 | -10.334 | -2.0654 | -13.596 | -11.758 | -10.327 | -4.7692 | -1.9118 | -2.0418 | | | | |
| 2400 | 165 | 3.15152 | 2.51492 | 0.49208 | -2.6343 | -5.4874 | -9.7477 | -0.3079 | -13.686 | -9.1276 | -6.4986 | -2.0826 | -0.9176 | -1.0476 | | | | |
| 2400 | 180 | 3.43798 | 3.15685 | 1.4332 | -1.7459 | -4.446 | -9.2108 | 0.6332 | -12.087 | -6.7221 | -4.419 | -0.7796 | -0.5475 | -0.6775 | | | | |
| 2400 | 195 | 3.12441 | 3.27421 | 1.81344 | -1.3096 | -3.761 | -8.6933 | 0.51344 | -12.359 | -6.3793 | -3.9747 | -0.3481 | -0.6355 | -0.7655 | | | | |
| 2400 | 210 | 2.24966 | 2.76108 | 1.49079 | -1.2669 | -3.5441 | -8.3199 | 0.69079 | -15.7 | -8.0609 | -4.7085 | -0.7088 | -1.2182 | -1.3482 | | | | |
| 2400 | 225 | 0.68204 | 1.51661 | 0.35746 | -1.9556 | -4.0958 | -8.6915 | -0.4425 | -21.637 | -10.046 | -5.7086 | -1.6969 | -2.4595 | -2.5895 | | | | |
| 2400 | 240 | -2.3825 | -1.2357 | -2.512 | -4.6125 | -6.7261 | -11.572 | -3.312 | -22.07 | -11.861 | -7.7899 | -3.9789 | -5.2417 | -5.3717 | | | | |
| 2400 | 255 | -7.3051 | -5.8988 | -7.837 | -10.163 | -12.369 | -18.014 | -8.637 | -20.149 | -15.451 | -12.226 | -9.7924 | -10.287 | -10.417 | | | | |
| 2400 | 270 | -22.881 | -22.647 | -24.193 | -28.578 | -33.615 | -25.209 | -24.993 | -17.145 | -23.869 | -18.956 | -15.942 | -29.561 | -29.691 | | | | |
| 2400 | 285 | -7.9893 | -7.3043 | -6.7034 | -9.3755 | -13.165 | -17.96 | -7.5034 | -13.183 | -14.262 | -10.284 | -9.278 | -9.4116 | -9.5416 | | | | |
| 2400 | 300 | -2.729 | -1.9469 | -2.2488 | -5.2571 | -9.5188 | -16.644 | -3.0488 | -11.347 | -9.3401 | -6.2322 | -4.7286 | -4.7995 | -4.9295 | | | | |
| 2400 | 315 | 0.17901 | 0.84591 | -0.0497 | -3.3061 | -7.7095 | -16.252 | -0.8497 | -11.269 | -6.7699 | -4.177 | -2.5047 | -2.5984 | -2.7284 | | | | |
| 2400 | 330 | 2.1335 | 2.55874 | 0.96735 | -2.7299 | -7.0213 | -15.059 | 0.16735 | -12.572 | -5.7164 | -3.4024 | -1.5093 | -1.6024 | -1.7324 | | | | |
| 2400 | 345 | 3.06669 | 3.22679 | 1.01547 | -3.2758 | -7.4263 | -14.988 | 0.21547 | -13.732 | -5.807 | -3.5257 | -1.434 | -1.5318 | -1.6618 | | | | |
| 2400 | 360 | 3.42918 | 3.30465 | 0.64997 | -4.0009 | -7.9558 | -15.61 | -0.15 | -13.371 | -5.8159 | -3.7195 | -1.8063 | -1.8517 | -1.9817 | | | | |
| 2450 | 0 | 3.39798 | 3.35583 | 0.52157 | -3.5849 | -8.0811 | -15.817 | -1.9129 | -13.414 | -5.8327 | -3.6829 | -1.9498 | -1.9728 | -2.6535 | | | | |
| 2450 | 15 | 3.14172 | 2.8662 | -0.0229 | -3.8648 | -8.7719 | -18.357 | -2.1928 | -11.638 | -5.5167 | -4.0563 | -2.7696 | -2.4476 | -2.7142 | | | | |
| 2450 | 30 | 2.18966 | 1.63203 | -0.8838 | -4.1295 | -10.279 | -30.568 | -2.4575 | -10.969 | -6.1049 | -5.25 | -4.307 | -3.1656 | -3.4102 | | | | |
| 2450 | 45 | 0.32702 | -0.5013 | -2.3149 | -4.776 | -11.148 | -31.145 | -3.104 | -12.823 | -8.1464 | -7.1163 | -6.4867 | -4.4846 | -4.9499 | | | | |
| 2450 | 60 | -2.4425 | -3.5085 | -4.4019 | -5.7726 | -10.581 | -25.194 | -4.1006 | -17.019 | -10.424 | -8.5389 | -8.7348 | -6.7058 | -7.3346 | | | | |
| 2450 | 75 | -8.4158 | -9.7149 | -8.4265 | -7.9635 | -10.049 | -16.354 | -6.2915 | -23.175 | -12.248 | -9.5998 | -11.616 | -11.781 | -12.431 | | | | |
| 2450 | 90 | -22.941 | -18.593 | -13.242 | -11.731 | -11.957 | -15.145 | -10.059 | -19.786 | -12.948 | -10.979 | -14.919 | -19.469 | -24.65 | | | | |
| 2450 | 105 | -9.1962 | -9.3038 | -11.713 | -15.873 | -20.288 | -19.656 | -14.201 | -19.534 | -15.281 | -14.371 | -18.614 | -12.403 | -16.671 | | | | |
| 2450 | 120 | -2.789 | -3.5963 | -6.7639 | -11.123 | -17.043 | -17.138 | -9.4515 | -18.275 | -20.157 | -21.047 | -14.232 | -6.5543 | -9.0336 | | | | |
| 2450 | 135 | 0.428 | -0.4614 | -3.4443 | -6.7094 | -9.6362 | -11.794 | -5.0374 | -14.197 | -14.114 | -14.822 | -8.3645 | -3.518 | -5.493 | | | | |
| 2450 | 150 | 2.0735 | 1.30207 | -1.3254 | -4.2266 | -7.1995 | -10.394 | -2.5546 | -13.856 | -11.818 | -10.153 | -4.8292 | -1.9718 | -3.7412 | | | | |
| 2450 | 165 | 3.09152 | 2.59023 | 0.43208 | -2.3384 | -5.5474 | -9.8077 | -0.6664 | -13.946 | -9.1876 | -6.2143 | -2.1426 | -0.9776 | -2.6865 | | | | |
| 2450 | 180 | 3.37798 | 3.1825 | 1.3732 | -1.4287 | -4.506 | -9.2708 | 0.24327 | -12.347 | -6.7821 | -4.1752 | -0.8396 | -0.6075 | -2.4049 | | | | |
| 2450 | 195 | 3.06441 | 3.24817 | 1.75344 | -1.004 | -3.821 | -8.7533 | 0.46797 | -12.619 | -6.4393 | -3.6811 | -0.4081 | -0.6955 | -2.7427 | | | | |
| 2450 | 210 | 2.18966 | 2.69913 | 1.43079 | -1.0224 | -3.6041 | -8.3799 | 0.44957 | -15.96 | -8.1209 | -4.2884 | -0.7688 | -1.2782 | -3.6419 | | | | |
| 2450 | 225 | 0.62204 | 1.43189 | 0.29746 | -1.781 | -4.1558 | -8.7515 | -0.109 | -21.897 | -10.106 | -5.2327 | -1.7569 | -2.5195 | -5.2249 | | | | |
| 2450 | 240 | -2.4425 | -1.3224 | -2.572 | -4.4833 | -6.7861 | -11.632 | -2.8113 | -22.33 | -11.921 | -7.3496 | -4.0389 | -5.3017 | -8.2631 | | | | |
| 2450 | 255 | -7.3651 | -5.9465 | -7.897 | -10.066 | -12.429 | -18.074 | -8.3938 | -20.409 | -15.511 | -11.709 | -7.9894 | -10.347 | -12.97 | | | | |
| 2450 | 270 | -22.941 | -22.433 | -24.253 | -27.41 | -33.675 | -25.269 | -25.738 | -17.405 | -23.929 | -17.801 | -16.002 | -29.621 | -23.669 | | | | |
| 2450 | 285 | -8.0493 | -7.5303 | -6.7634 | -8.9166 | -13.225 | -18.02 | -7.2446 | -13.443 | -14.322 | -9.9252 | -9.338 | -9.4716 | -14.132 | | | | |
| 2450 | 300 | -2.789 | -2.0828 | -2.3088 | -4.7789 | -9.5788 | -16.704 | -3.1069 | -11.607 | -9.4001 | -6.0122 | -4.7886 | -4.8595 | -9.0389 | | | | |
| 2450 | 315 | 0.11901 | 0.77017 | -0.1097 | -2.8151 | -7.7695 | -16.312 | -1.1431 | -11.529 | -6.8299 | -4.0397 | -2.5647 | -2.6584 | -6.1556 | | | | |
| 2450 | 330 | 2.0735 | 2.54588 | 0.90735 | -2.2285 | -7.0813 | -15.119 | -0.5565 | -12.832 | -5.7764 | -3.3043 | -1.5693 | -1.6624 | -4.1729 | | | | |
| 2450 | 345 | 3.00669 | 3.26438 | 0.95547 | -2.7618 | -7.4863 | -15.048 | -1.0898 | -13.992 | -5.867 | -3.4244 | -1.494 | -1.5918 | -3.1669 | | | | |
| 2450 | 360 | 3.36918 | 3.38305 | 0.58997 | -3.5091 | -8.0158 | -15.67 | -1.8371 | -13.631 | -5.8759 | -3.653 | -1.8663 | -1.9117 | -2.6835 | | | | |
| 2500 | 0 | 2.72798 | 2.76275 | 0.07157 | -4.5802 | -8.5311 | -16.267 | -0.7684 | -13.664 | -6.2827 | -4.1329 | -2.3998 | -2.4228 | -2.5528 | | | | |
| 2500 | 15 | 2.69172 | 2.2501 | -0.4729 | -4.8222 | -9.2219 | -18.807 | -1.3129 | -11.888 | -5.9667 | -4.5063 | -3.2196 | -2.8976 | -3.0276 | | | | |
| 2500 | 30 | 1.73966 | 1.0123 | -1.3338 | -5.0865 | -10.729 | -31.018 | -2.1738 | -11.219 | -6.5549 | -5.7 | -4.757 | -3.6156 | -3.7456 | | | | |
| 2500 | 45 | -0.123 | -1.1011 | -2.7649 | -5.6927 | -11.598 | -31.595 | -3.6049 | -13.073 | -8.5964 | -7.5663 | -6.9367 | -4.9346 | -5.0646 | | | | |
| 2500 | 60 | -2.8925 | -4.0682 | -4.8519 | -6.5529 | -11.031 | -25.644 | -5.6919 | -17.269 | -10.874 | -8.9889 | -9.1848 | -7.1558 | -7.2858 | | | | |
| 2500 | 75 | -8.8658 | -10.125 | -8.8765 | -8.5146 | -10.499 | -16.804 | -9.7165 | -23.425 | -12.698 | -10.05 | -12.066 | -12.231 | -12.361 | | | | |
| 2500 | 90 | -23.391 | -18.331 | -13.692 | -12.219 | -12.407 | -15.595 | -14.532 | -20.036 | -13.398 | -11.429 | -15.369 | -19.919 | -20.049 | | | | |
| 2500 | 105 | -9.6462 | -9.9276 | -12.163 | -17.502 | -20.738 | -20.106 | -13.003 | -19.784 | -15.731 | -14.821 | -19.064 | -12.853 | -12.983 | | | | |
| 2500 | 120 | -3.239 | -4.2754 | -7.2139 | -12.318 | -17.493 | -17.588 | -8.0539 | -18.525 | -20.607 | -21.497 | -14.682 | -7.0043 | -7.1343 | | | | |
| 2500 | 135 | -0.022 | -1.1312 | -3.8943 | -7.5251 | -10.086 | -12.244 | -4.7343 | -14.447 | -14.564 | -15.272 | -8.8145 | -3.968 | -4.098 | | | | |
| 2500 | 150 | 1.6235 | 0.66416 | -1.7754 | -5.0065 | -7.6495 | -10.844 | -2.6154 | -14.106 | -12.268 | -10.603 | -5.2792 | -2.4218 | -2.5518 | | | | |
| 2500 | 165 | 2.64152 | 2.00492 | -0.0179 | -3.1443 | -5.9974 | -10.258 | -0.8579 | -14.196 | -9.6376 | -6.6643 | -2.5926 | -1.4276 | -1.5576 | | | | |
| 2500 | 180 | 2.92798 | 2.64685 | 0.9232 | -2.2559 | -4.956 | -9.7208 | 0.0732 | -12.597 | -7.2321 | -4.6252 | -1.2896 | -1.0575 | -1.1875 | | | | |
| 2500 | 195 | 2.61441 | 2.76421 | 1.30344 | -1.8196 | -4.271 | -9.2033 | 0.46344 | -12.869 | -6.8893 | -4.1311 | -0.8581 | -1.1455 | -1.2755 | | | | |
| 2500 | 210 | 1.73966 | 2.25108 | 0.98079 | -1.7769 | -4.0541 | -8.8299 | 0.14079 | -16.21 | -8.5709 | -4.7384 | -1.2188 | -1.7282 | -1.8582 | | | | |
| 2500 | 225 | 0.17204 | 1.00661 | -0.1525 | -2.4656 | -4.6058 | -9.2015 | -0.9925 | -22.147 | -10.556 | -5.6827 | -2.2069 | -2.9695 | -3.0995 | | | | |
| 2500 | 240 | -2.8925 | -1.7457 | -3.022 | -5.1225 | -7.2361 | -12.082 | -3.862 | -22.58 | -12.371 | -7.7996 | -4.4889 | -5.7517 | -5.8817 | | | | |
| 2500 | 255 | -7.8151 | -6.4088 | -8.347 | -10.673 | -12.879 | -18.524 | -9.187 | -20.659 | -15.961 | -12.159 | -8.4394 | -10.797 | -10.927 | | | | |
| 2500 | 270 | -23.391 | -23.157 | -24.703 | -29.088 | -34.125 | -25.719 | -25.543 | -17.655 | -24.379 | -18.251 | -16.452 | -30.071 | -30.201 | | | | |
| 2500 | 285 | -8.4993 | -7.8143 | -7.2134 | -9.8855 | -13.675 | -18.47 | -8.0534 | -13.693 | -14.772 | -10.375 | -9.788 | -9.9216 | -10.052 | | | | |
| 2500 | 300 | -3.239 | -2.4569 | | | | | | | | | | | | | | | |