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| 2. | Features | | | | | | | | | | | |
|------------|--|--|---|--|--|--|--|--|--|--|--|--|
| é 1 | | | | | | | | | | | | |
| | | liable in performanc | 62 | | | | | | | | | |
| | *Compact size | | | | | | | | | | | |
| 3. | *RoHS complia | ance | | | | | | | | | | |
| 5. | Applications | (- (- (-)) | | | | | | | | | | |
| | * IEEE802.11n | | o | | | | | | | | | |
| 4 | * Hand-held devices when WiFi(802.11n/a/b/g) functions are needed. | | | | | | | | | | | |
| 1. | Description | | | | | | | | | | | |
| | Unictron's antenna series are specially designed for WiFi(802.11n/a/b/g) applications | | | | | | | | | | | |
| | | ctron's proprietary o | - | - | | | kcellen | | | | | |
| - | • | ensitivity to consister | ntly provide | e high si | ignal reception | efficiency. | | | | | | |
|). (| Operating Cond | ition: | | | | | | | | | | |
| | Temperature | -10 to +8 | 5 °C (Wi | th doub | le-sided tape) | | | | | | | |
| | | - 40 to +8 | 5 °C (W | ithout d | ouble-sided tap | e) | | | | | | |
| | Humidity | 10 to 95 | % RH | | | | | | | | | |
| 5. 9 | Storage Conditi | on: | | | | | | | | | | |
| | Temperature | -10 to +8 | 5 °C (Wi | th doub | le-sided tape) | | | | | | | |
| | | - 40 to +8 | 5 °C (W | ithout d | ouble-sided tap | e) | | | | | | |
| | Humidity | 10 to 95 | % RH | | | | | | | | | |
| 7. | Electrical Spectrical Spectrical Spectrical Spectrical Spectric Processing (1997) 1. 2400~2500 | | | | | | | | | | | |
| | Charac | teristics | Sp | Specifications | | | | | | | | |
| | Outline Dimensio | ons | 40 | .0 x 6. | mm | | | | | | | |
| | Working Frequer | тсу | | 2400~ | MHz | | | | | | | |
| | Bandwidth | | | 100 | MHz | | | | | | | |
| _ | VSWR (@Center | Frequency)* | | 2 (m | | | | | | | | |
| | Impedance | | | 50 | Ω | | | | | | | |
| | Impedance | | | 00 | | 22 | | | | | | |
| - | Polarization | | Line | | arization | 22 | | | | | | |
| | Polarization | Peak | | ear Pol 2.6 (ty | arization pical) | dBi | | | | | | |
| _ | Polarization Gain | Efficiency | | ear Pol 2.6 (ty 79 (ty | arization pical) pical) | | ctron igies Corp | | | | | |
| * (| Polarization Gain Center frequency will be of | Efficiency | according to th | ear Pol 2.6 (ty 79 (ty | arization pical) pical) | | ctron <u>gies</u> Corp 96-30 | | | | | |
| * (| Polarization Gain Center frequency will be of | Efficiency | according to th | ear Pol 2.6 (ty 79 (ty | arization pical) pical) | dBi Vuni Technolo Diane and rad | 06-30 | | | | | |
| * (| Polarization Gain Center frequency will be of | Efficiency | according to th nvironment . 方有限公司 es Corporatio | ear Pol 2.6 (ty 79 (ty e conditio | arization pical) pical) ns of user's ground p RAWINGS AND SPEC RTY OF UNICTRON T DRATION AND SHALL ED AS THE BASIS FOL OF APPARATUS OR D | dBi ovuni Technolo blane and rad 2014-0 Docu Control IFICATIONS A ECHNOLOGIE NOT BE REPR R THE MANUF | ment Center RE-THE S CODUCED ACTURE | | | | | |
| *(| Polarization Gain Center frequency will be of Bandwidth &VSWR are | Efficiency ffset to another frequency a tested at Unitron test en 詠業科技股份 Unictron Technologie Website:www.u | according to th nvironment . 方有限公司 es Corporatio | e conditio | arization pical) pical) ns of user's ground p RAWINGS AND SPEC RTY OF UNICTRON T DRATION AND SHALL ED AS THE BASIS FOL OF APPARATUS OR D | dBi Technolo Dane and rad 2014-1 Doct Control IFICATIONS A ECHNOLOGIE NOT BE REPR R THE MANUF EVICES WITHO | ment Center RE-THE S CODUCED ACTURE | | | | | |

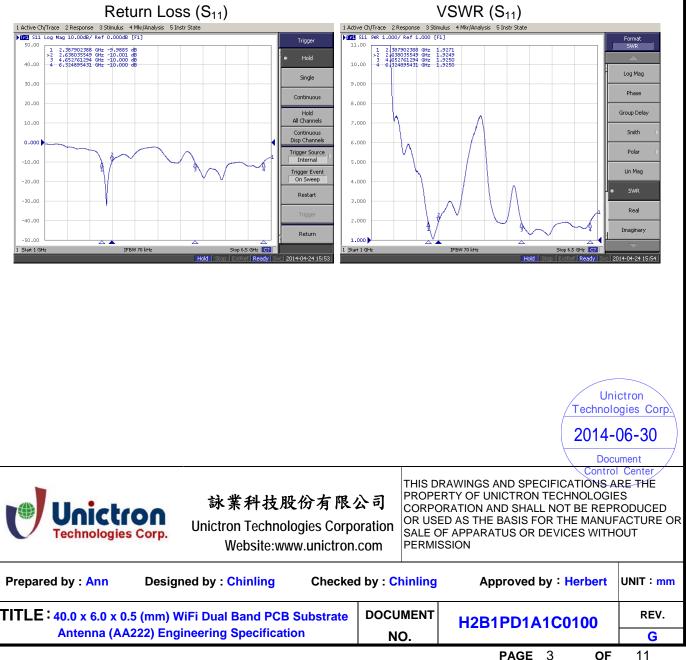
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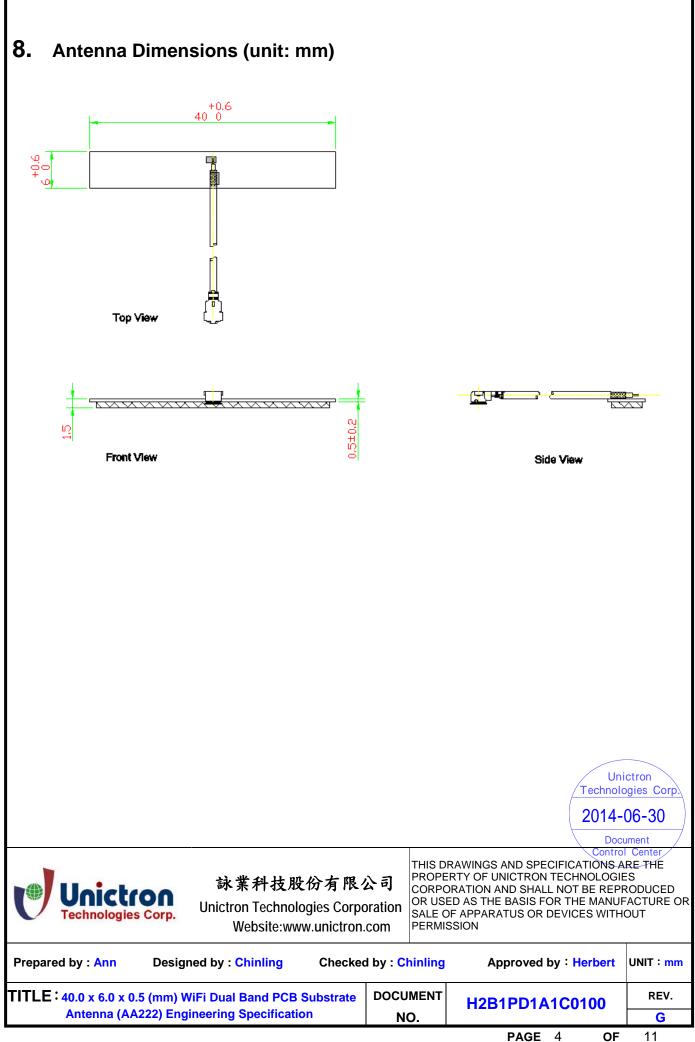
| Char | acteristics | Specifications | Unit |
|---------------|----------------|---------------------|------|
| Working Frequ | Jency | 4900~5900 | MHz |
| Bandwidth ** | | 1000 (min) | MHz |
| VSWR (@Cent | er Frequency)* | 2 (max) | |
| Impedance | | 50 | Ω |
| Polarization | | Linear Polarization | |
| Gain | Peak | 3.3 (typical) | dBi |
| Gain | Efficiency | 79 (typical) | % |

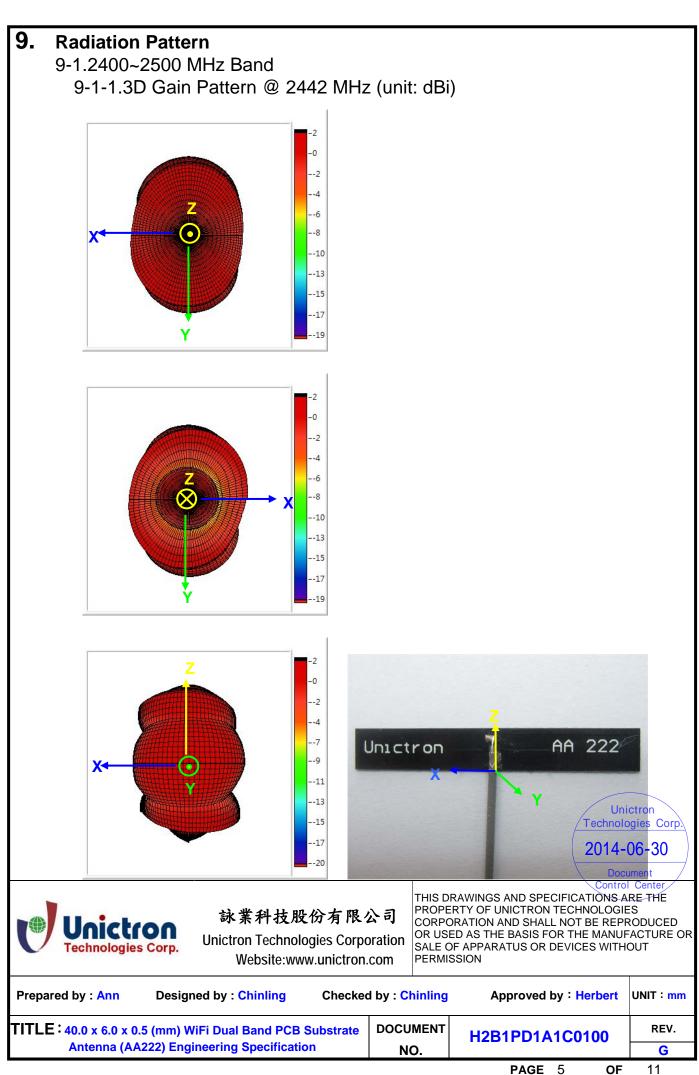
* Center frequency will be offset to another frequency according to the conditions of user's ground plane and radome.

* Bandwidth &VSWR are tested at Unitron test environment .

7-3. Return Loss & VSWR

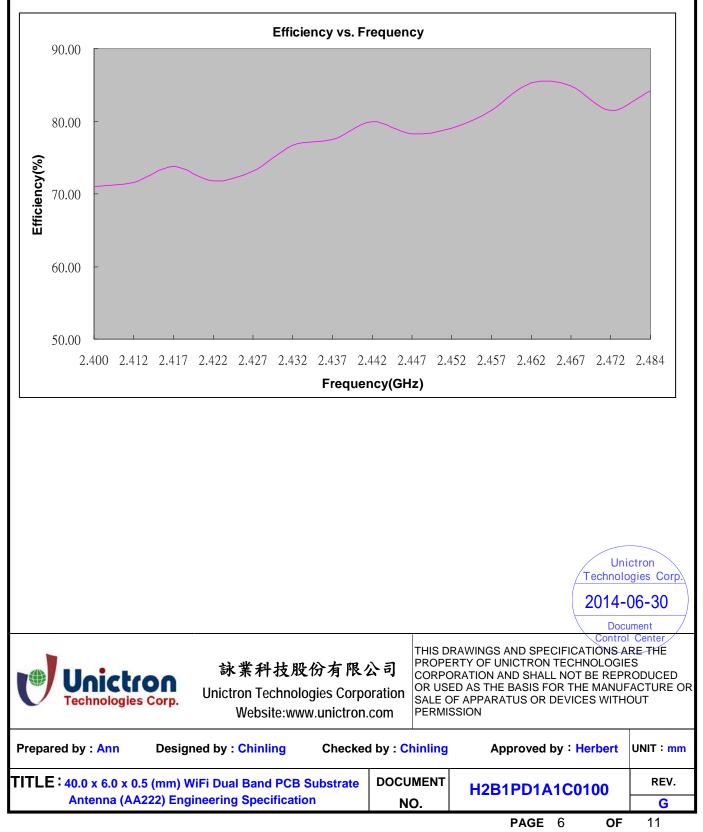


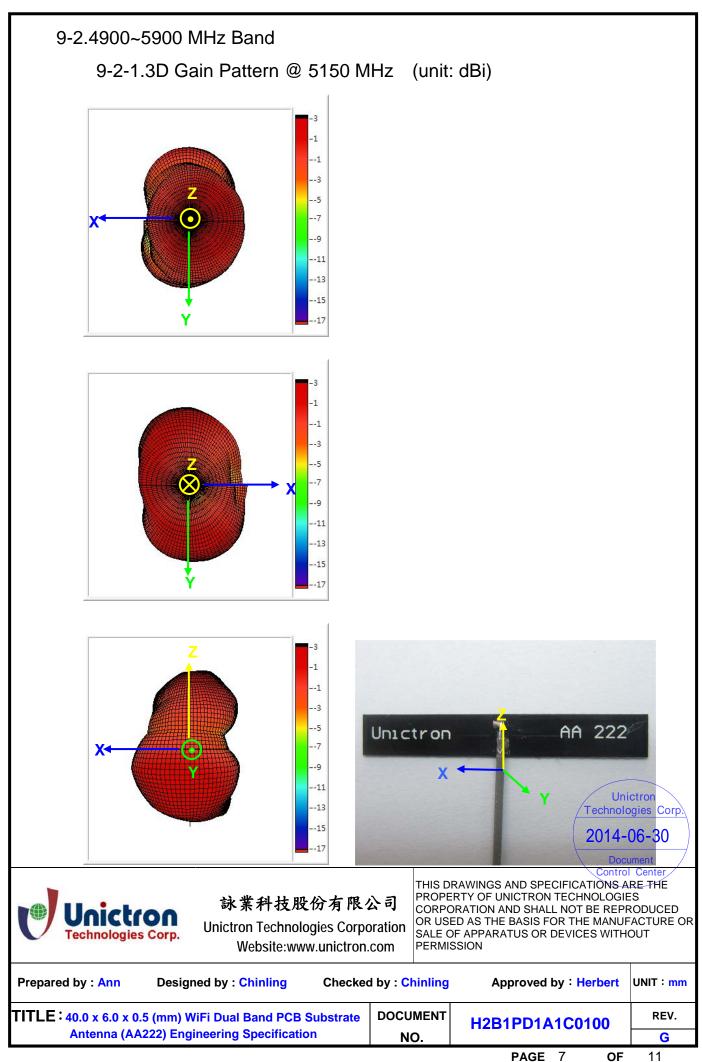


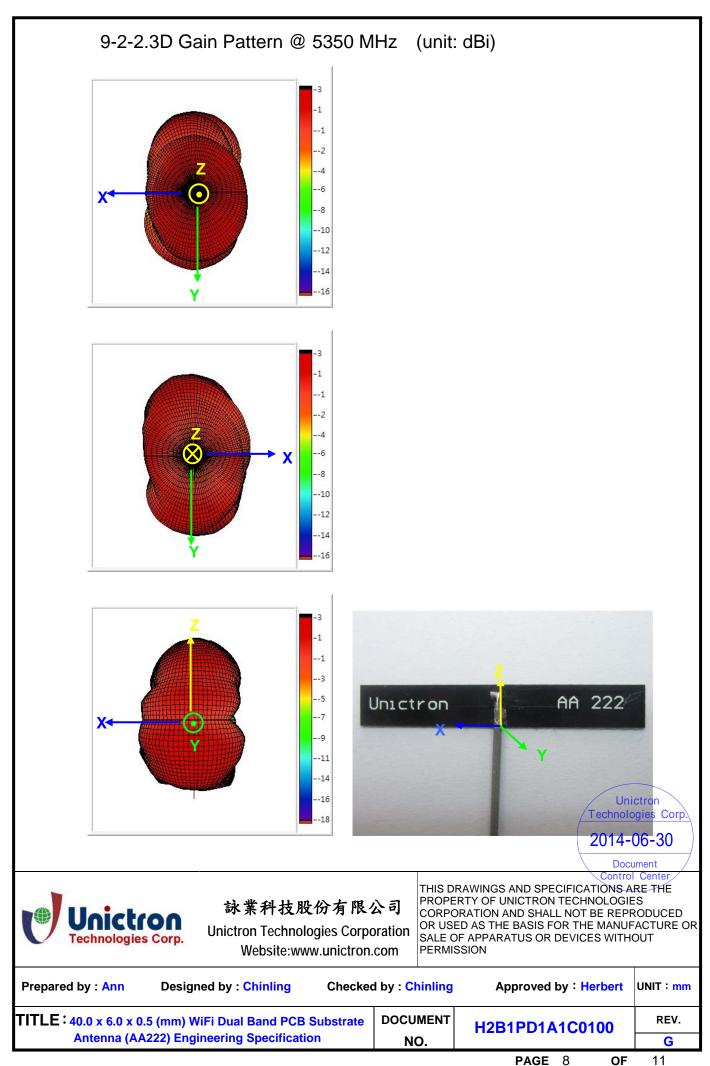


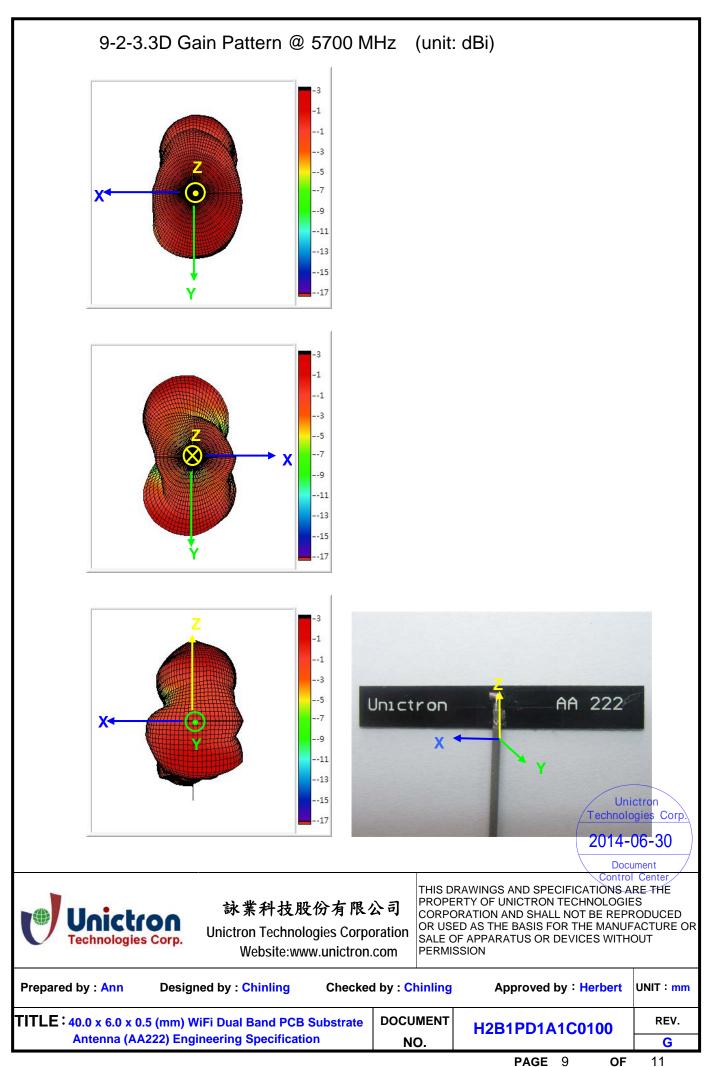
| 9-1-2. 3D Efficiency Table | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency(GHz) | 2.400 | 2.412 | 2.417 | 2.422 | 2.427 | 2.432 | 2.437 | 2.442 | 2.447 | 2.452 | 2.457 | 2.462 | 2.467 | 2.472 | 2.484 |
| Efficiency(dB) | -1.49 | -1.45 | -1.32 | -1.44 | -1.36 | -1.15 | -1.11 | -0.97 | -1.06 | -1.02 | -0.89 | -0.69 | -0.71 | -0.89 | -0.75 |
| Efficiency(%) | 70.96 | 71.61 | 73.79 | 71.78 | 73.11 | 76.74 | 77.45 | 79.98 | 78.31 | 79.10 | 81.51 | 85.26 | 84.83 | 81.51 | 84.20 |
| Gain(dBi) | 2.11 | 2.21 | 2.34 | 2.26 | 2.33 | 2.49 | 2.52 | 2.68 | 3.07 | 3.21 | 3.50 | 3.73 | 3.69 | 3.39 | 3.42 |

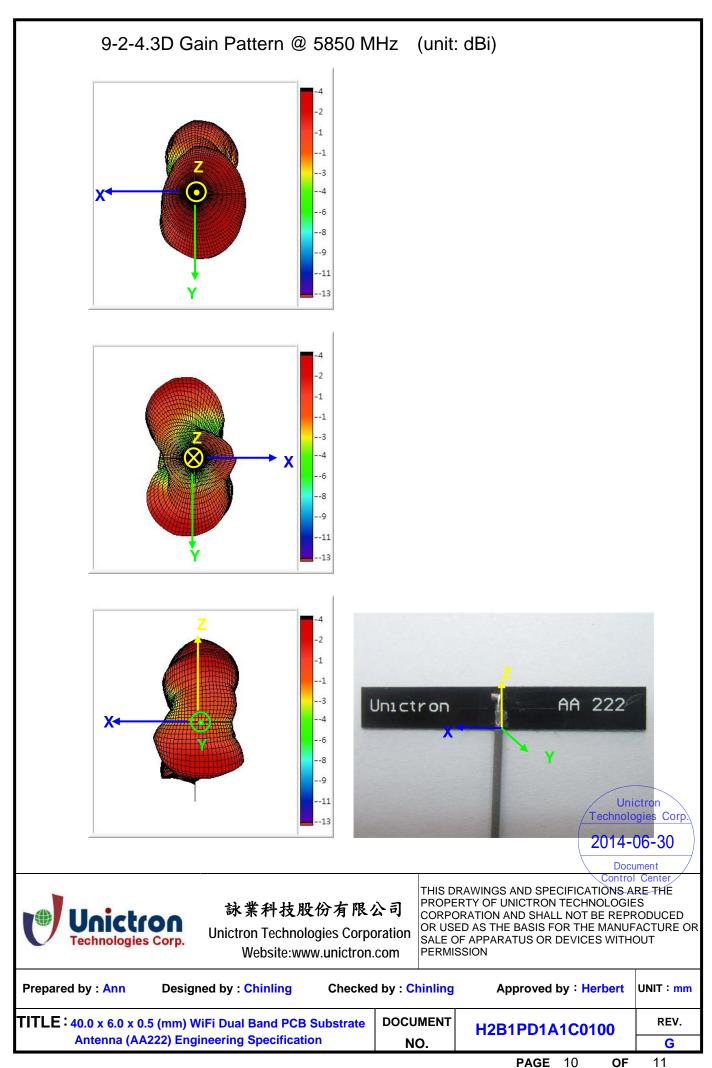
9-1-3. 3D Efficiency vs. Frequency











| 9-2-5. 3D | Effici | ency | Table | е | | | | | | | |
|----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency(GHz) | 4.900 | 4.950 | 5.000 | 5.050 | 5.100 | 5.150 | 5.200 | 5.250 | 5.300 | 5.350 | 5.400 |
| Efficiency(dB) | -1.02 | -1.25 | -1.45 | -1.41 | -1.44 | -1.15 | -0.97 | -1.07 | -1.11 | -0.66 | -0.99 |
| Efficiency(%) | 79.07 | 74.99 | 71.61 | 72.28 | 71.78 | 76.74 | 79.98 | 78.10 | 77.50 | 85.95 | 79.62 |
| Gain(dBi) | 3.23 | 2.74 | 2.30 | 2.56 | 2.83 | 3.20 | 3.46 | 3.72 | 3.30 | 3.39 | 3.36 |
| | | | | | | | | | | | |
| Frequency(GHz) | 5.450 | 5.500 | 5.550 | 5.600 | 5.650 | 5.700 | 5.750 | 5.800 | 5.850 | 5.900 | |
| Efficiency(dB) | -1.81 | -1.87 | -1.41 | -1.26 | -1.93 | -1.85 | -1.53 | -1.33 | -0.80 | -1.23 | |
| Efficiency(%) | 65.92 | 65.01 | 72.28 | 74.82 | 64.09 | 65.37 | 70.31 | 73.62 | 83.11 | 75.34 | |
| Gain(dBi) | 2.47 | 2.97 | 3.49 | 3.79 | 2.60 | 3.06 | 3.74 | 3.91 | 5.18 | 3.98 | |

9-2-6. 3D Efficiency vs. Frequency

