

# Regulatory WWAN Antenna Information

| Platform information |                                                            |                                      |                                                           |                              |
|----------------------|------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------|------------------------------|
| Brand                | ODM                                                        | Platform model name (RMN)            | Platform type (ex: regular NB, convertible PC, AIO...etc) | *SAR minimum separation (mm) |
| HP                   | Compal                                                     | TPN-C182                             | Regular NB                                                | 187.58                       |
| Antenna information  |                                                            |                                      |                                                           | Maximum Peak gain            |
| Vendor               | Type                                                       | Antenna Part number (Ant5 (M) TX/RX) | Antenna Part number (Ant6 (D/G) SRS/RX)                   | 2496MHz                      |
| WNC                  | PIFA                                                       | DC330036630<br>(81ELBF15.GAY)        | DC330036640<br>(81ELBF15.GAZ)                             | 2.74 dBi                     |
| Module information   |                                                            |                                      |                                                           |                              |
| Model                | Form factor and suffixes ( NGW/ HMW AND AN/ NB/ BN....)    |                                      |                                                           |                              |
| RW135R-G<br>L        | Qualcomm® Snapdragon™ X35 5G Release 17 RedCap (PeroniR-C) |                                      |                                                           |                              |
|                      |                                                            |                                      |                                                           |                              |
|                      |                                                            |                                      |                                                           |                              |
|                      |                                                            |                                      |                                                           |                              |
|                      |                                                            |                                      |                                                           |                              |
|                      |                                                            |                                      |                                                           |                              |
|                      |                                                            |                                      |                                                           |                              |

| Antenna vendor connect person |                                                                             |
|-------------------------------|-----------------------------------------------------------------------------|
| Antenna Vendor                | WNC                                                                         |
| contact person                | Ben Shih                                                                    |
| E-mail                        | Ben.Shih@wnc.com.tw                                                         |
| Tel/Mobile                    | (03)666-7799 Ext. 7729                                                      |
| Web address                   | <a href="https://www.wnc.com.tw/">https://www.wnc.com.tw/</a>               |
| Address                       | No. 20,Park 2nd Road, Hsinchu Science Park, Hsinchu County, Taiwan (R.O.C.) |

## Antenna Sample / Antenna Data

### Requirements for worldwide regulatory approval

| Section | Description of Required OEM / ODM Antenna Information                                                                                                                                                                        | US / IC  | EU       | Japan    | Taiwan                   | S.Korea                  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|--------------------------|--------------------------|
| 1A      | Part Number for Antenna Assembly                                                                                                                                                                                             | Required | Required | Required | Required                 | Required                 |
| 1B      | Antenna Manufacturer Name                                                                                                                                                                                                    | Required | Required | Required | Required                 | Required                 |
| 1C      | Description of Antenna Type                                                                                                                                                                                                  | Required | N/A      | N/A      | N/A                      | N/A                      |
| 1D      | Tx antenna Gain (Peak Gain W/ cable loss) *                                                                                                                                                                                  | Required | Required | Required | Required                 | Required                 |
| 2       | Dimensioned Photographs and Drawings of Tx and Rx antennas                                                                                                                                                                   | Required | Required | Required | Required                 | Required                 |
| 3       | Radiation patterns of antennas loaded in the host platform.                                                                                                                                                                  | N/A      | Required | Required | Required                 | N/A                      |
| 4       | Platform model name / number - correlated to antenna manufacturer and antenna part number                                                                                                                                    | Required | Required | Desired  | Required                 | Desired                  |
| 5       | Photograph(s) or Drawings showing location of antennas in platform. <u>(S. Korea requires photographs of antennas for approval submission).</u><br><u>Taiwan requires pictures of each antenna type shown in the system.</u> | Required | Required | Desired  | <u>Required (Photos)</u> | <u>Required (Photos)</u> |
| 6       | Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).                                                                                         | Required | N/A      | N/A      | N/A                      | N/A                      |
| 7       | Photograph(s) or Drawings showing the location of all antennas (WLAN, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.                 | Required | N/A      | N/A      | N/A                      | N/A                      |
| 8       | Local representative contact information for LMA/ PARS process.                                                                                                                                                              | Required | N/A      | N/A      | N/A                      | N/A                      |

## Antenna Information

### Section 1. Antenna Assembly Specifications

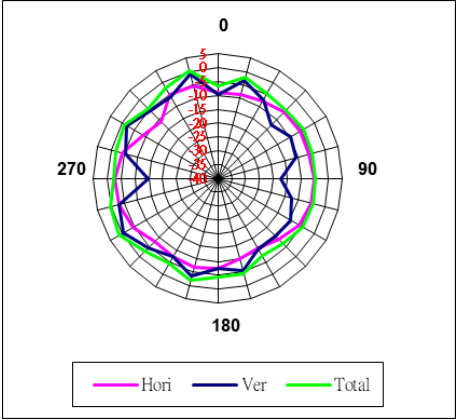
| Communication System | Band | Frequency(MHz) from low to high spectrum |      | 1A Part Number for Antenna Assembly    | 1B Antenna Manufacturer Name | 1C Description of Antenna Type | 1D Tx Antenna Gain (dBi) Ant5 |
|----------------------|------|------------------------------------------|------|----------------------------------------|------------------------------|--------------------------------|-------------------------------|
| LTE                  | 1    | 1920                                     | 1980 | Ant5:<br>DC330036630<br>(81ELBF15.GAY) | WNC                          | PIFA                           | 1.39                          |
| LTE                  | 2    | 1850                                     | 1910 |                                        |                              |                                | 1.33                          |
| LTE                  | 3    | 1710                                     | 1785 |                                        |                              |                                | 1.74                          |
| LTE                  | 4    | 1710                                     | 1755 |                                        |                              |                                | 1.49                          |
| LTE                  | 5    | 824                                      | 849  |                                        |                              |                                | -1.34                         |
| LTE                  | 7    | 2500                                     | 2570 |                                        |                              |                                | 2.74                          |
| LTE                  | 8    | 880                                      | 915  |                                        |                              |                                | -1.21                         |
| LTE                  | 12   | 699                                      | 716  |                                        |                              |                                | -1.28                         |
| LTE                  | 13   | 777                                      | 787  |                                        |                              |                                | 0.1                           |
| LTE                  | 14   | 788                                      | 798  |                                        |                              |                                | -0.52                         |
| LTE                  | 17   | 704                                      | 716  |                                        |                              |                                | -1.28                         |
| LTE                  | 18   | 815                                      | 830  |                                        |                              |                                | -1.22                         |
| LTE                  | 19   | 830                                      | 845  |                                        |                              |                                | -1.47                         |
| LTE                  | 20   | 832                                      | 862  |                                        |                              |                                | -1.47                         |
| LTE                  | 25   | 1850                                     | 1915 |                                        |                              |                                | 1.33                          |
| LTE                  | 26   | 814                                      | 849  |                                        |                              |                                | -1.02                         |
| LTE                  | 28   | 703                                      | 748  |                                        |                              |                                | -1.03                         |
| LTE                  | 30   | 2305                                     | 2315 |                                        |                              |                                | 0.94                          |
| LTE                  | 34   | 2010                                     | 2025 |                                        |                              |                                | 2.25                          |
| LTE                  | 38   | 2570                                     | 2620 |                                        |                              |                                | 2.44                          |
| LTE                  | 39   | 1880                                     | 1920 |                                        |                              |                                | 1.33                          |
| LTE                  | 40   | 2300                                     | 2400 |                                        |                              |                                | 2.66                          |
| LTE                  | 41   | 2496                                     | 2690 |                                        |                              |                                | 2.74                          |
| LTE                  | 42   | 3400                                     | 3600 |                                        |                              |                                | 1.79                          |
| LTE                  | 43   | 3600                                     | 3800 |                                        |                              |                                | 0.83                          |
| LTE                  | 48   | 3550                                     | 3700 |                                        |                              |                                | 0.83                          |
| LTE                  | 66   | 1710                                     | 1780 |                                        |                              |                                | 1.74                          |
| LTE                  | 70   | 1695                                     | 1710 |                                        |                              |                                | 0.18                          |
| LTE                  | 71   | 663                                      | 698  |                                        |                              |                                | -1.18                         |
| LTE                  | 106  | 896                                      | 901  |                                        |                              |                                | -1.21                         |
| 5G NR FR1            | 1    | 1920                                     | 1980 |                                        |                              |                                | 1.39                          |
| 5G NR FR1            | 2    | 1850                                     | 1910 |                                        |                              |                                | 1.33                          |
| 5G NR FR1            | 3    | 1710                                     | 1785 |                                        |                              |                                | 1.74                          |
| 5G NR FR1            | 5    | 824                                      | 849  |                                        |                              |                                | -1.34                         |
| 5G NR FR1            | 7    | 2500                                     | 2570 |                                        |                              |                                | 2.74                          |
| 5G NR FR1            | 8    | 880                                      | 915  |                                        |                              |                                | -1.21                         |
| 5G NR FR1            | 12   | 699                                      | 716  |                                        |                              |                                | -1.28                         |
| 5G NR FR1            | 13   | 777                                      | 787  |                                        |                              |                                | 0.1                           |
| 5G NR FR1            | 14   | 788                                      | 798  |                                        |                              |                                | -0.52                         |
| 5G NR FR1            | 18   | 815                                      | 830  |                                        |                              |                                | -1.22                         |
| 5G NR FR1            | 20   | 832                                      | 862  |                                        |                              |                                | -1.47                         |

|           |    |      |      |  |  |  |       |
|-----------|----|------|------|--|--|--|-------|
| 5G NR FR1 | 25 | 1850 | 1915 |  |  |  | 1.33  |
| 5G NR FR1 | 26 | 814  | 849  |  |  |  | -1.02 |
| 5G NR FR1 | 28 | 703  | 748  |  |  |  | -1.03 |
| 5G NR FR1 | 30 | 2305 | 2315 |  |  |  | 0.94  |
| 5G NR FR1 | 38 | 2570 | 2620 |  |  |  | 2.44  |
| 5G NR FR1 | 40 | 2300 | 2400 |  |  |  | 2.66  |
| 5G NR FR1 | 41 | 2496 | 2690 |  |  |  | 2.74  |
| 5G NR FR1 | 48 | 3550 | 3700 |  |  |  | 0.83  |
| 5G NR FR1 | 66 | 1710 | 1780 |  |  |  | 1.74  |
| 5G NR FR1 | 70 | 1695 | 1710 |  |  |  | 0.18  |
| 5G NR FR1 | 71 | 663  | 698  |  |  |  | -1.18 |
| 5G NR FR1 | 77 | 3300 | 4200 |  |  |  | 2.55  |
| 5G NR FR1 | 78 | 3300 | 3800 |  |  |  | 2.55  |

| Communication System | Band | Frequency(MHz) from low to high spectrum |      | 1A Part Number for Antenna Assembly     | 1B Antenna Manufacturer Name | 1C Description of Antenna Type | 1D Tx Antenna Gain (dBi) Ant5 |
|----------------------|------|------------------------------------------|------|-----------------------------------------|------------------------------|--------------------------------|-------------------------------|
| 5G NR FR1            | 41   | 2496                                     | 2690 | Ant6 :<br>DC330036640<br>(81ELBF15.GAZ) | WNC                          | PIFA                           | -1.09                         |
| 5G NR FR1            | 48   | 3550                                     | 3700 |                                         |                              |                                | -0.44                         |
| 5G NR FR1            | 77   | 3300                                     | 4200 |                                         |                              |                                | 0.32                          |
| 5G NR FR1            | 78   | 3300                                     | 3800 |                                         |                              |                                | -0.44                         |

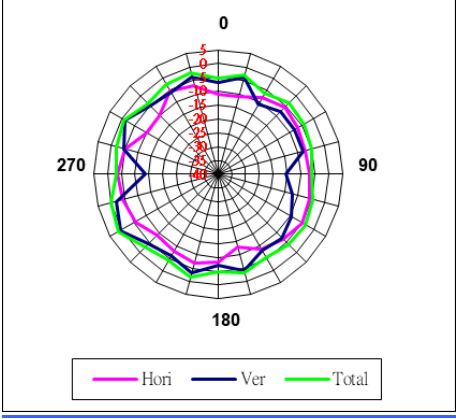
● The listed frequency 2D radiation pattern is required

● [Ant5:](#)  
[1920MHz](#)



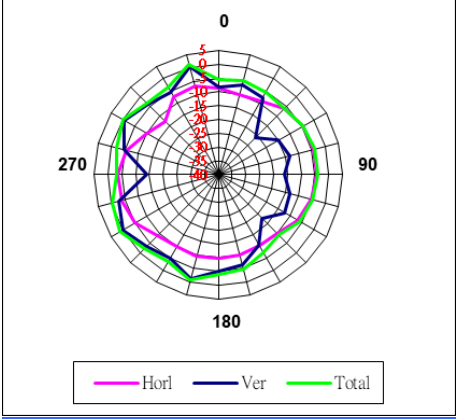
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1920MHz |
| Horizontal (dBi) peak | -2.62   |
| Vertical (dBi) peak   | -0.33   |

[1980MHz](#)



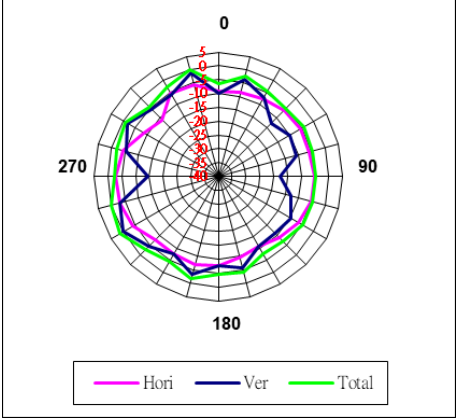
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|-----------------------|---------|
| Center Frequency      | 1980MHz |
| Horizontal (dBi) peak | -3.69   |
| Vertical (dBi) peak   | 0.46    |

[1850MHz](#)



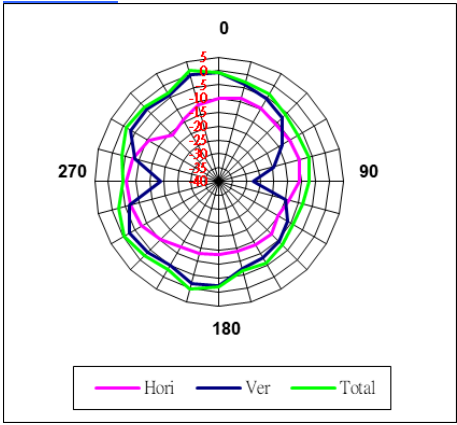
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| Center Frequency      | 1850MHz |
| Horizontal (dBi) peak | -3.57   |
| Vertical (dBi) peak   | 0.37    |

[1910MHz](#)



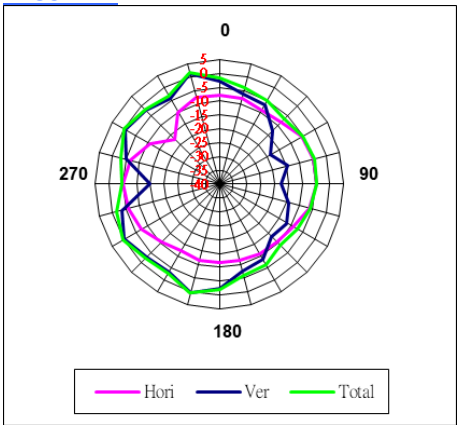
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| Center Frequency      | 1910MHz |
| Horizontal (dBi) peak | -2.8    |
| Vertical (dBi) peak   | -0.41   |

1710MHz



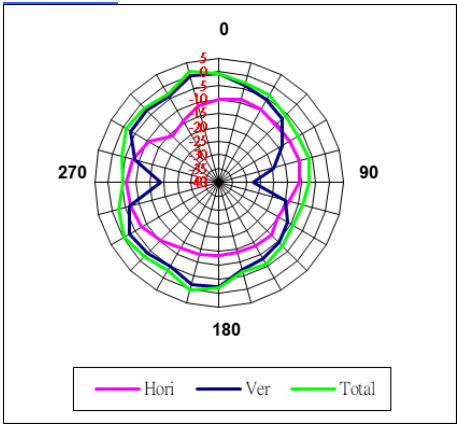
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|-----------------------|---------|
| Center Frequency      | 1710MHz |
| Horizontal (dBi) peak | -6.57   |
| Vertical (dBi) peak   | -0.15   |

1785MHz



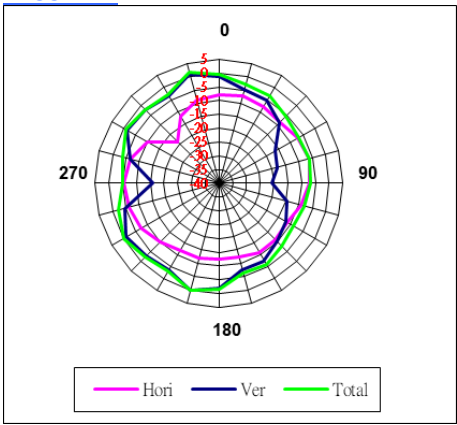
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1785MHz |
| Horizontal (dBi) peak | -4.65   |
| Vertical (dBi) peak   | 1.15    |

1710MHz



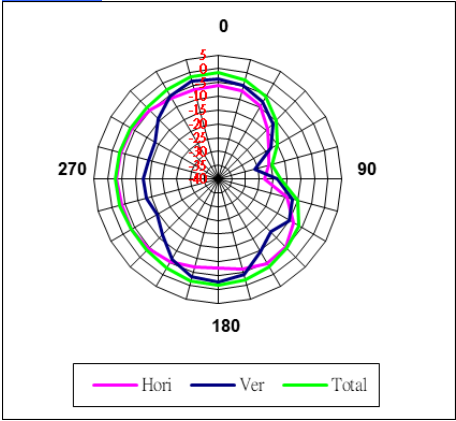
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1710MHz |
| Horizontal (dBi) peak | -6.57   |
| Vertical (dBi) peak   | -0.15   |

1755MHz



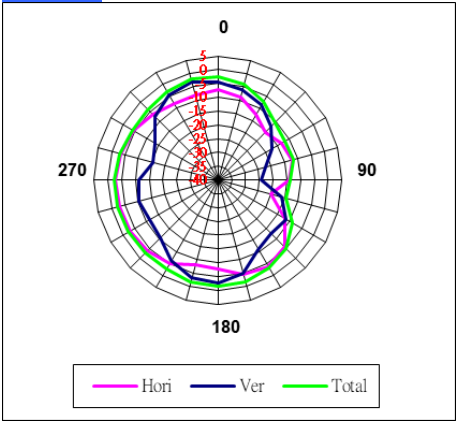
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1755MHz |
| Horizontal (dBi) peak | -5.6    |
| Vertical (dBi) peak   | 1.07    |

824MHz



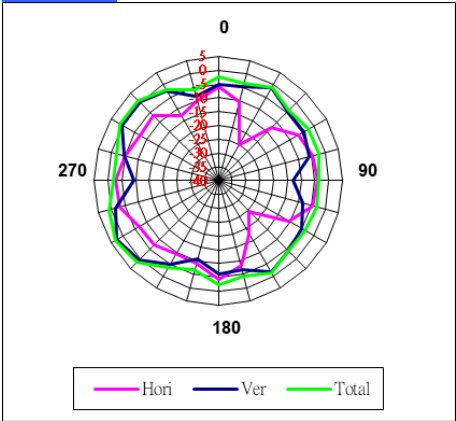
|                       |        |
|-----------------------|--------|
| Center Frequency      | 824MHz |
| Horizontal (dBi) peak | -3.26  |
| Vertical (dBi) peak   | -2.45  |

849MHz



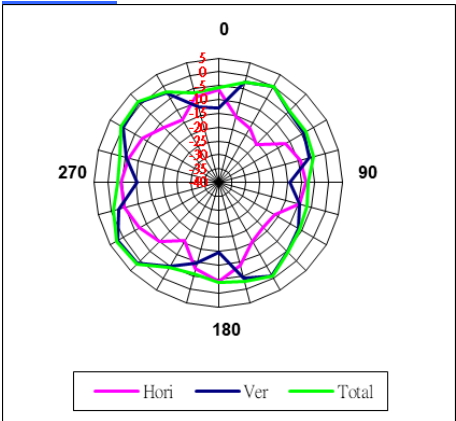
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| Center Frequency      | 849MHz |
| Horizontal (dBi) peak | -2.81  |
| Vertical (dBi) peak   | -2.51  |

2500MHz



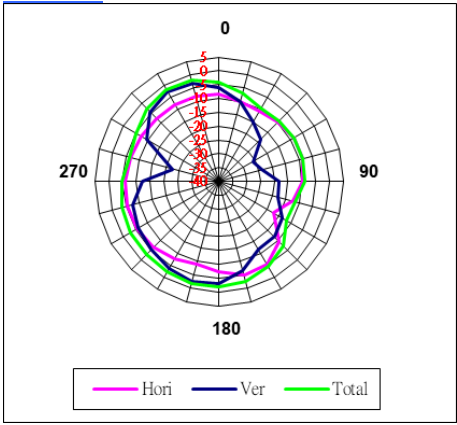
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|-----------------------|---------|
| Center Frequency      | 2500MHz |
| Horizontal (dBi) peak | -2.86   |
| Vertical (dBi) peak   | 2.74    |

2570MHz



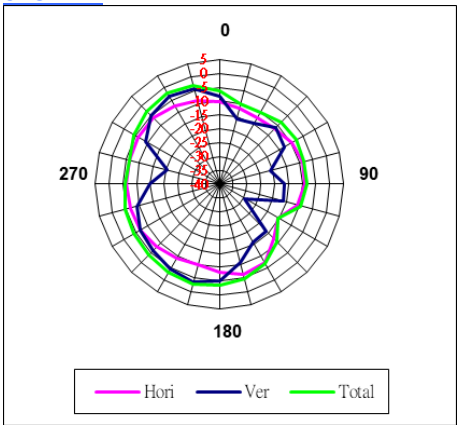
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| Center Frequency      | 2570MHz |
| Horizontal (dBi) peak | -4.36   |
| Vertical (dBi) peak   | 1.94    |

880MHz



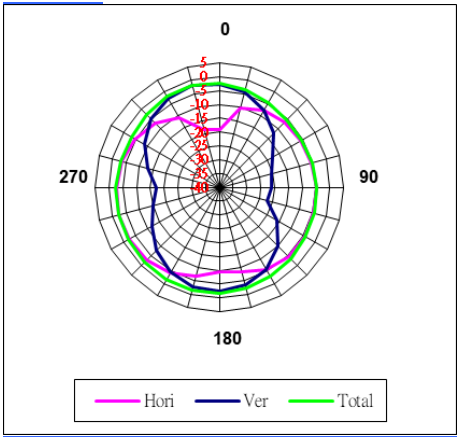
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|-----------------------|--------|
| Center Frequency      | 880MHz |
| Horizontal (dBi) peak | -4.87  |
| Vertical (dBi) peak   | -2.54  |

915MHz



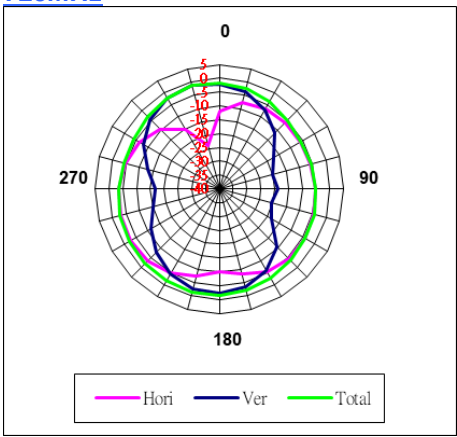
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|-----------------------|--------|
| Center Frequency      | 915MHz |
| Horizontal (dBi) peak | -6.11  |
| Vertical (dBi) peak   | -3.45  |

699MHz

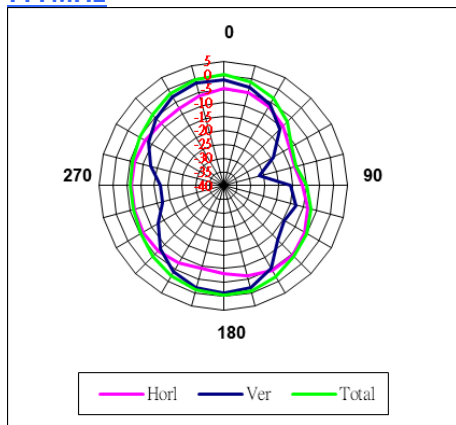


|                       |        |
|-----------------------|--------|
| Center Frequency      | 699MHz |
| Horizontal (dBi) peak | -2.35  |
| Vertical (dBi) peak   | -1.74  |

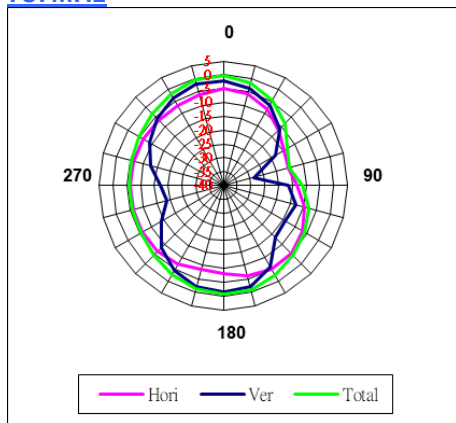
716MHz



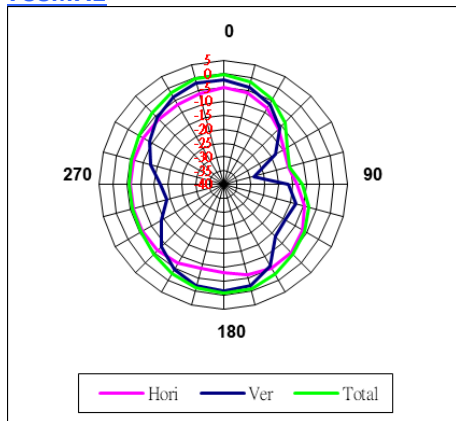
|                       |        |
|-----------------------|--------|
| Center Frequency      | 716MHz |
| Horizontal (dBi) peak | -2.79  |
| Vertical (dBi) peak   | -1.42  |

**777MHz**

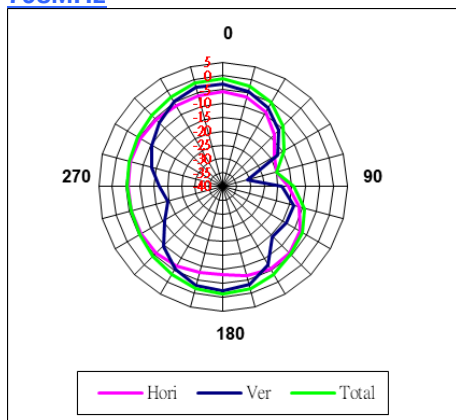
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|-----------------------|---------------|
| Center Frequency      | <b>777MHz</b> |
| Horizontal (dBi) peak | <b>-4.64</b>  |
| Vertical (dBi) peak   | <b>-1.15</b>  |

**787MHz**

|                       |               |
|-----------------------|---------------|
| Center Frequency      | <b>787MHz</b> |
| Horizontal (dBi) peak | <b>-4.99</b>  |
| Vertical (dBi) peak   | <b>-1.4</b>   |

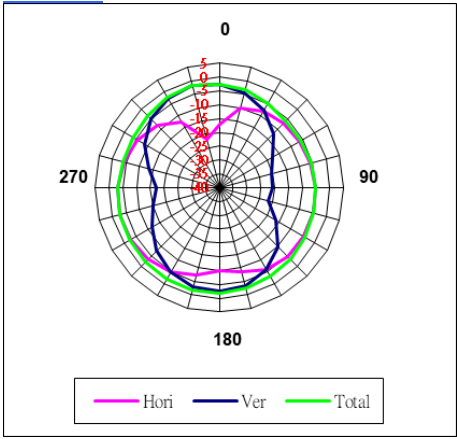
**788MHz**

|                       |               |
|-----------------------|---------------|
| Center Frequency      | <b>788MHz</b> |
| Horizontal (dBi) peak | <b>-5.07</b>  |
| Vertical (dBi) peak   | <b>-1.59</b>  |

**798MHz**

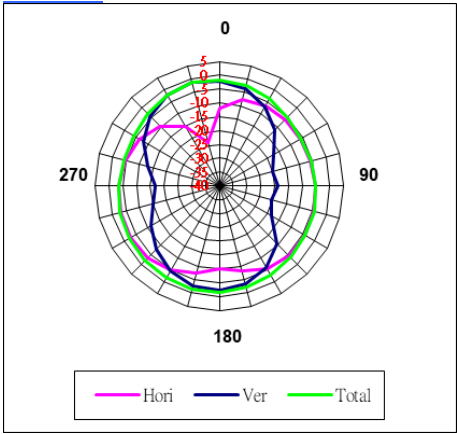
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| Center Frequency      | <b>798MHz</b> |
| Horizontal (dBi) peak | <b>-5.48</b>  |
| Vertical (dBi) peak   | <b>-2.14</b>  |

704MHz



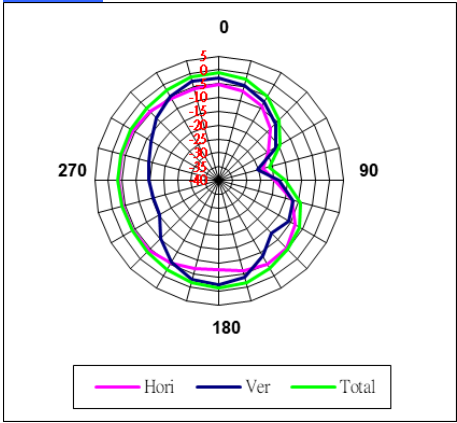
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|-----------------------|--------|
| Center Frequency      | 704MHz |
| Horizontal (dBi) peak | -2.81  |
| Vertical (dBi) peak   | -1.78  |

716MHz



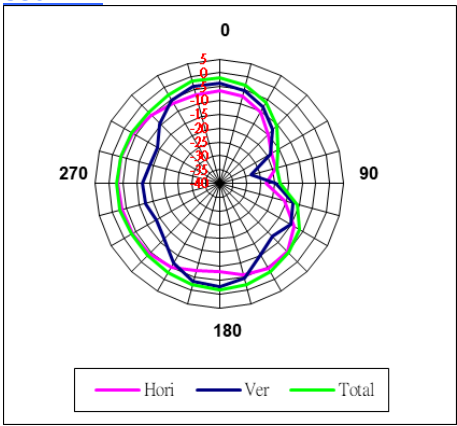
|                       |        |
|-----------------------|--------|
| Center Frequency      | 716MHz |
| Horizontal (dBi) peak | -2.79  |
| Vertical (dBi) peak   | -1.42  |

815MHz

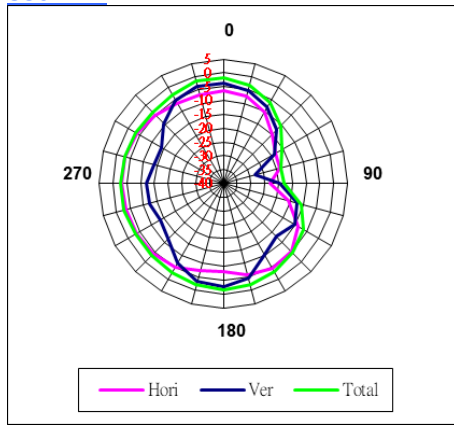


|                       |        |
|-----------------------|--------|
| Center Frequency      | 815MHz |
| Horizontal (dBi) peak | -3.66  |
| Vertical (dBi) peak   | -2.12  |

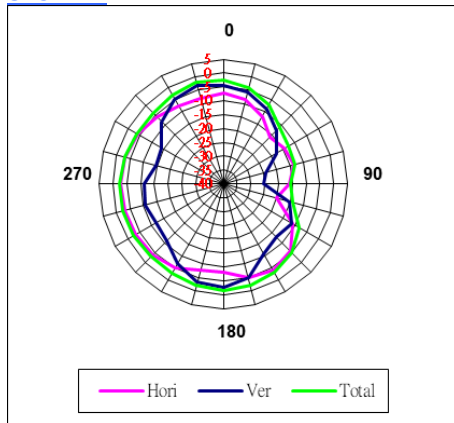
830MHz



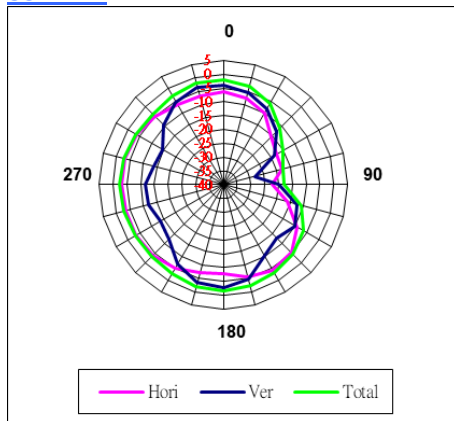
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| Center Frequency      | 830MHz |
| Horizontal (dBi) peak | -3.15  |
| Vertical (dBi) peak   | -2.67  |

**830MHz**

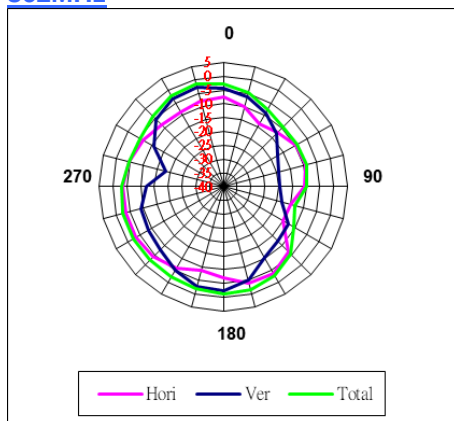
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| Center Frequency      | <b>830MHz</b> |
| Horizontal (dBi) peak | <b>-3.15</b>  |
| Vertical (dBi) peak   | <b>-2.67</b>  |

**845MHz**

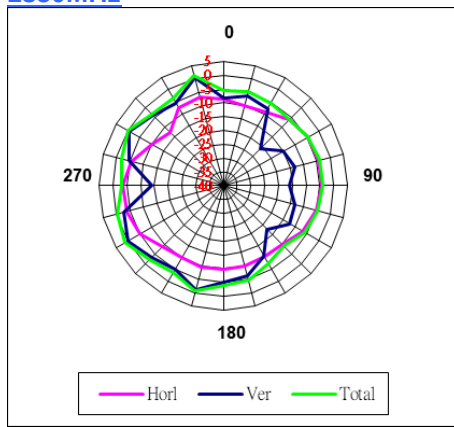
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| Center Frequency      | <b>845MHz</b> |
| Horizontal (dBi) peak | <b>-2.83</b>  |
| Vertical (dBi) peak   | <b>-2.57</b>  |

**832MHz**

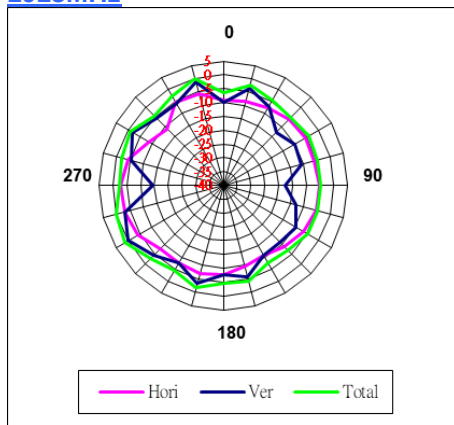
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| Center Frequency      | <b>832MHz</b> |
| Horizontal (dBi) peak | <b>-3.06</b>  |
| Vertical (dBi) peak   | <b>-2.63</b>  |

**862MHz**

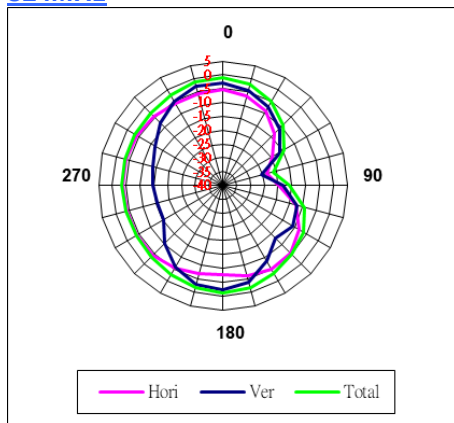
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| Center Frequency      | <b>862MHz</b> |
| Horizontal (dBi) peak | <b>-3.28</b>  |
| Vertical (dBi) peak   | <b>-2.49</b>  |

**1850MHz**

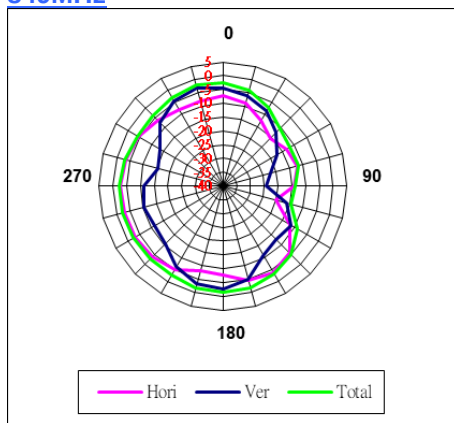
|                       |                |
|-----------------------|----------------|
| Center Frequency      | <b>1850MHz</b> |
| Horizontal (dBi) peak | <b>-3.57</b>   |
| Vertical (dBi) peak   | <b>0.37</b>    |

**1915MHz**

|                       |                |
|-----------------------|----------------|
| Center Frequency      | <b>1915MHz</b> |
| Horizontal (dBi) peak | <b>-2.72</b>   |
| Vertical (dBi) peak   | <b>-0.36</b>   |

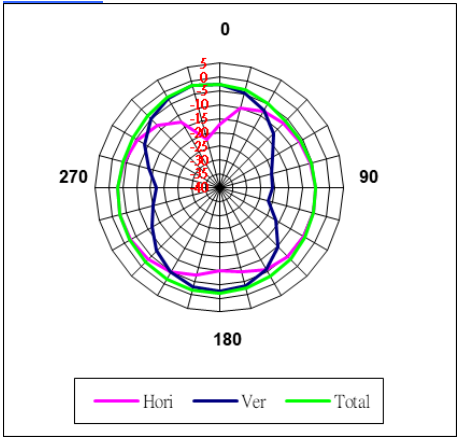
**814MHz**

|                       |               |
|-----------------------|---------------|
| Center Frequency      | <b>814MHz</b> |
| Horizontal (dBi) peak | <b>-3.66</b>  |
| Vertical (dBi) peak   | <b>-2.12</b>  |

**849MHz**

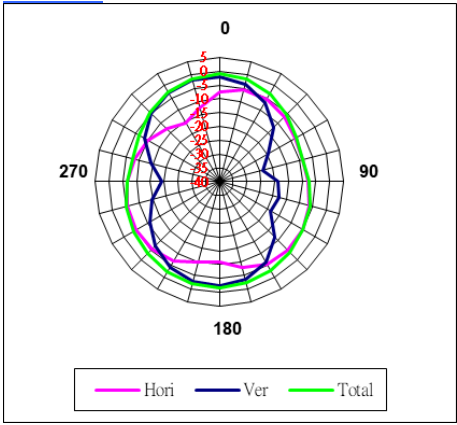
|                       |               |
|-----------------------|---------------|
| Center Frequency      | <b>849MHz</b> |
| Horizontal (dBi) peak | <b>-2.81</b>  |
| Vertical (dBi) peak   | <b>-2.51</b>  |

703MHz



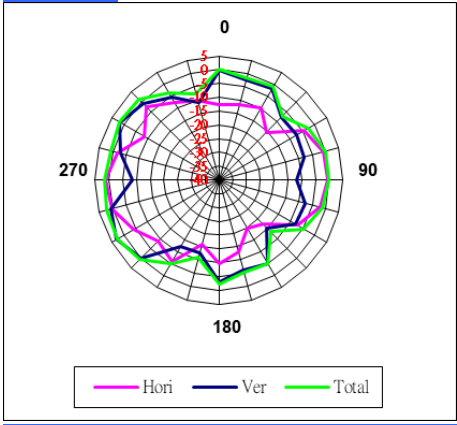
|                       |        |
|-----------------------|--------|
| Center Frequency      | 703MHz |
| Horizontal (dBi) peak | -2.81  |
| Vertical (dBi) peak   | -1.78  |

748MHz



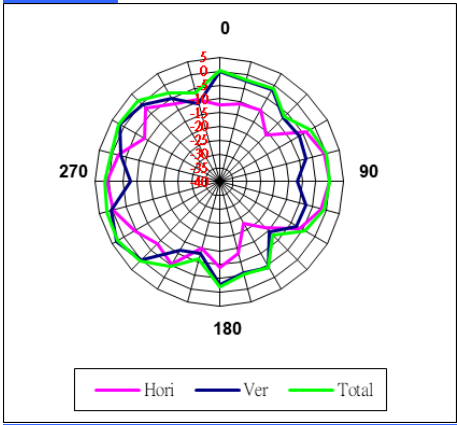
|                       |        |
|-----------------------|--------|
| Center Frequency      | 748MHz |
| Horizontal (dBi) peak | -4.9   |
| Vertical (dBi) peak   | -1.79  |

2305MHz

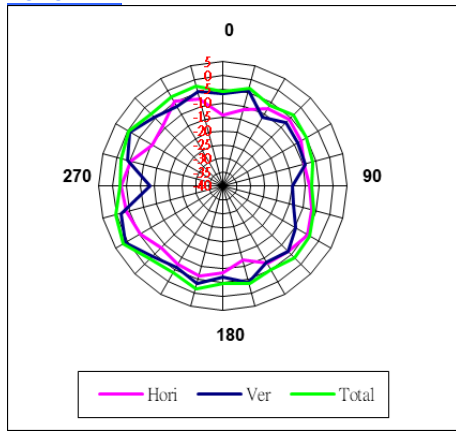


|                       |         |
|-----------------------|---------|
| Center Frequency      | 2305MHz |
| Horizontal (dBi) peak | 1.27    |
| Vertical (dBi) peak   | 2.99    |

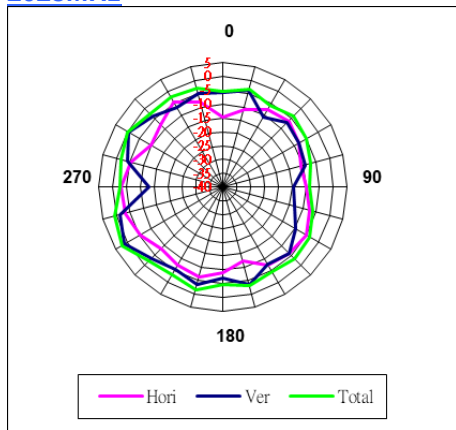
2315MHz



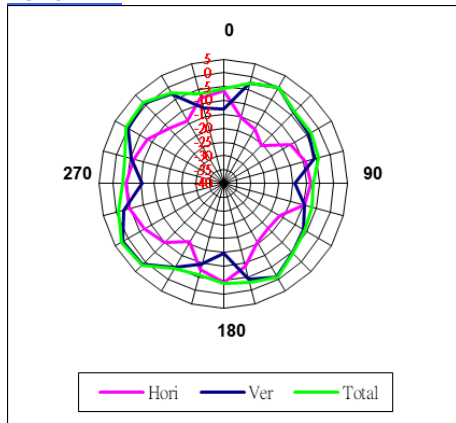
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2315MHz |
| Horizontal (dBi) peak | 0.92    |
| Vertical (dBi) peak   | 2.94    |

**2010MHz**

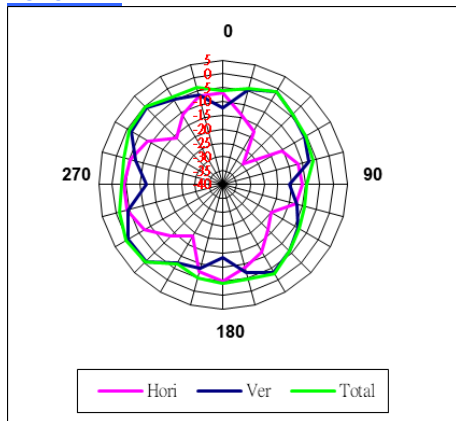
|                       |                |
|-----------------------|----------------|
| Center Frequency      | <b>2010MHz</b> |
| Horizontal (dBi) peak | <b>-3.05</b>   |
| Vertical (dBi) peak   | <b>0.92</b>    |

**2025MHz**

|                       |                |
|-----------------------|----------------|
| Center Frequency      | <b>2025MHz</b> |
| Horizontal (dBi) peak | <b>-2.91</b>   |
| Vertical (dBi) peak   | <b>1.38</b>    |

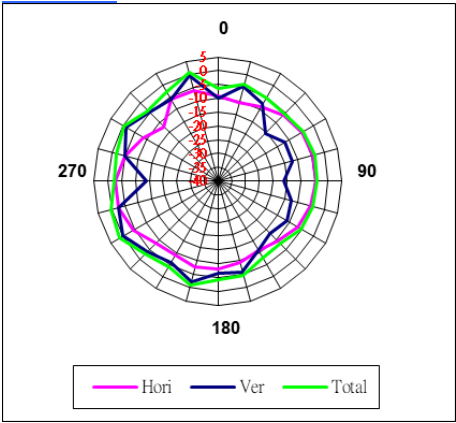
**2570MHz**

|                       |                |
|-----------------------|----------------|
| Center Frequency      | <b>2570MHz</b> |
| Horizontal (dBi) peak | <b>-4.36</b>   |
| Vertical (dBi) peak   | <b>1.94</b>    |

**2620MHz**

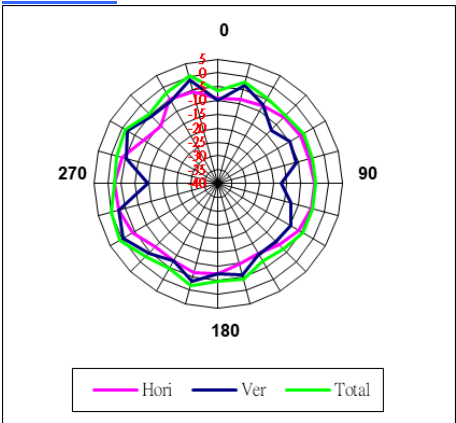
|                       |                |
|-----------------------|----------------|
| Center Frequency      | <b>2620MHz</b> |
| Horizontal (dBi) peak | <b>-4</b>      |
| Vertical (dBi) peak   | <b>-0.29</b>   |

1880MHz



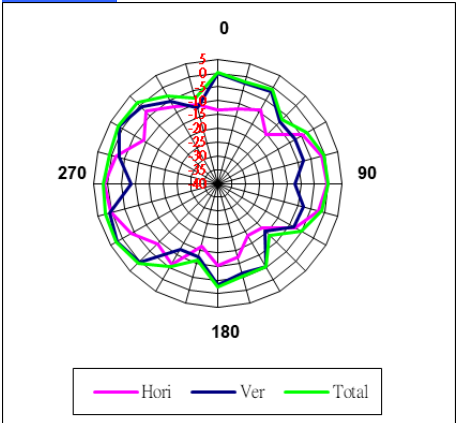
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1880MHz |
| Horizontal (dBi) peak | -2.73   |
| Vertical (dBi) peak   | -0.02   |

1920MHz



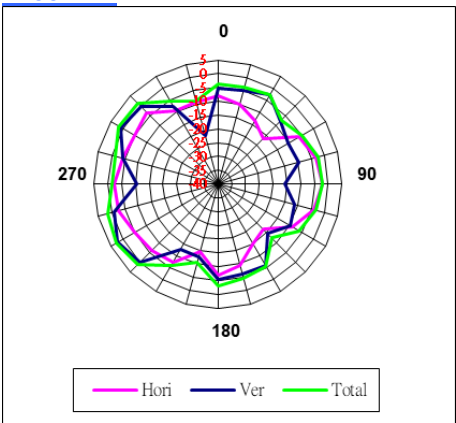
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1920MHz |
| Horizontal (dBi) peak | -2.62   |
| Vertical (dBi) peak   | -0.33   |

2300MHz



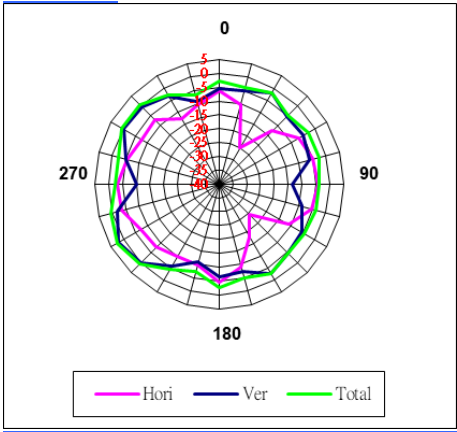
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2300MHz |
| Horizontal (dBi) peak | 1.32    |
| Vertical (dBi) peak   | 2.47    |

2400MHz



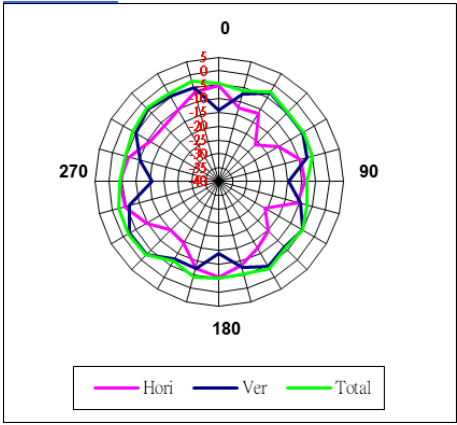
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2400MHz |
| Horizontal (dBi) peak | -2.21   |
| Vertical (dBi) peak   | 2.02    |

2496MHz



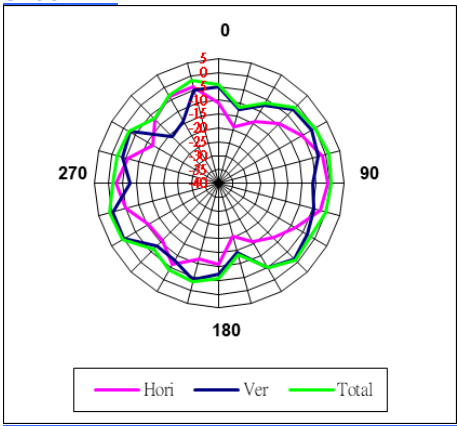
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2496MHz |
| Horizontal (dBi) peak | -3.2    |
| Vertical (dBi) peak   | 2.25    |

2690MHz



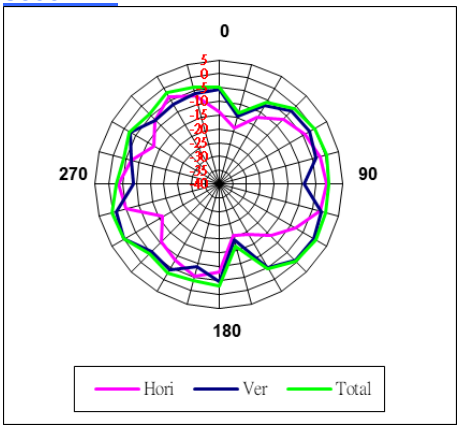
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2690MHz |
| Horizontal (dBi) peak | -4.18   |
| Vertical (dBi) peak   | -2.74   |

3400MHz



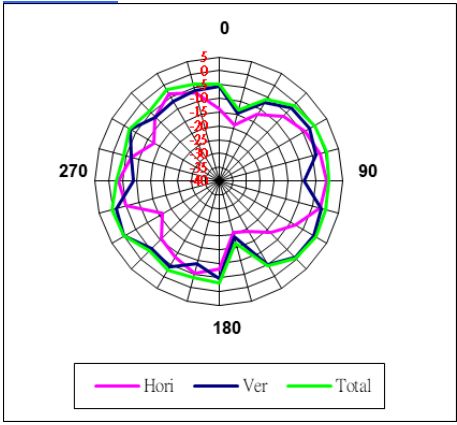
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3400MHz |
| Horizontal (dBi) peak | -0.76   |
| Vertical (dBi) peak   | -0.06   |

3600MHz



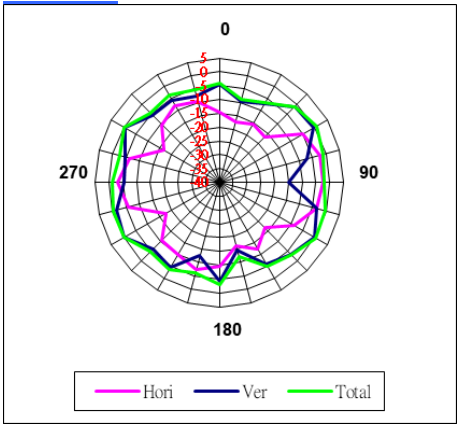
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3600MHz |
| Horizontal (dBi) peak | -0.95   |
| Vertical (dBi) peak   | -0.11   |

3600MHz



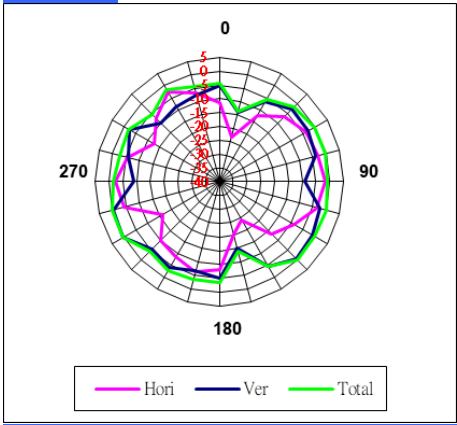
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3600MHz |
| Horizontal (dBi) peak | -0.95   |
| Vertical (dBi) peak   | -0.11   |

3800MHz



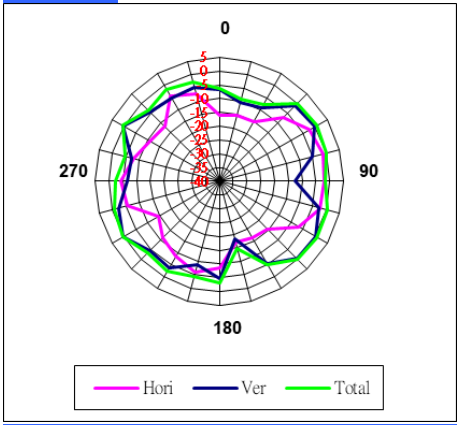
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3800MHz |
| Horizontal (dBi) peak | -2.28   |
| Vertical (dBi) peak   | -0.16   |

3550MHz



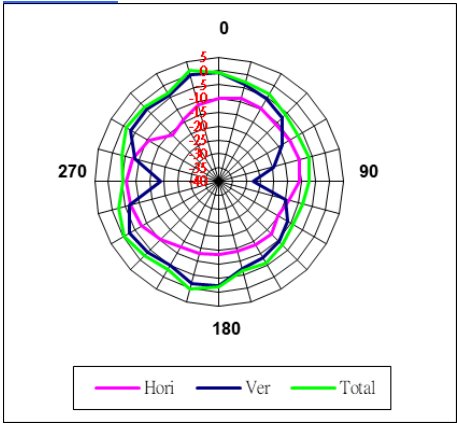
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3550MHz |
| Horizontal (dBi) peak | -1.8    |
| Vertical (dBi) peak   | 0.33    |

3700MHz



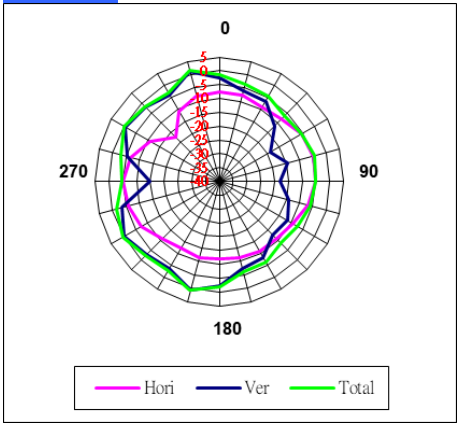
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3700MHz |
| Horizontal (dBi) peak | -1.29   |
| Vertical (dBi) peak   | 0.35    |

1710MHz



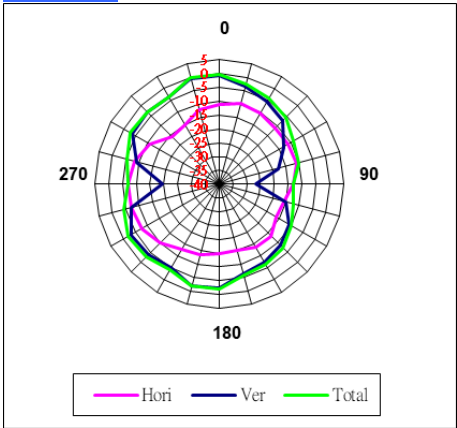
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1710MHz |
| Horizontal (dBi) peak | -6.57   |
| Vertical (dBi) peak   | -0.15   |

1780MHz



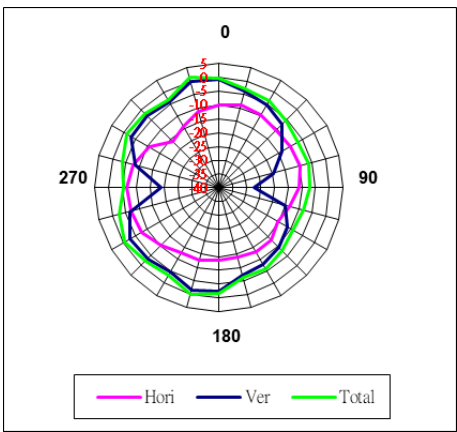
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1780MHz |
| Horizontal (dBi) peak | -4.90   |
| Vertical (dBi) peak   | 1.25    |

1695MHz



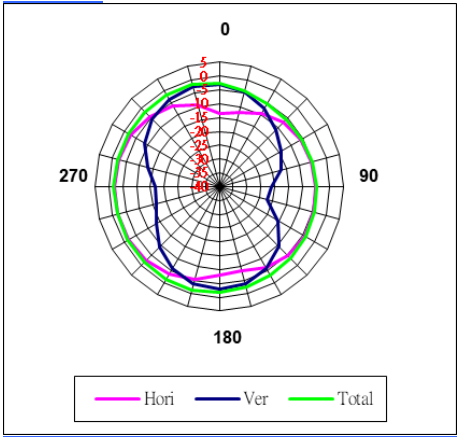
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1695MHz |
| Horizontal (dBi) peak | -7.15   |
| Vertical (dBi) peak   | -0.36   |

1710MHz



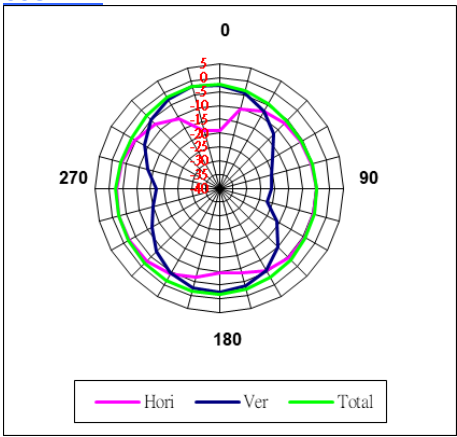
|                       |        |
|-----------------------|--------|
| Center Frequency      | 698MHz |
| Horizontal (dBi) peak | -6.57  |
| Vertical (dBi) peak   | -0.15  |

663MHz



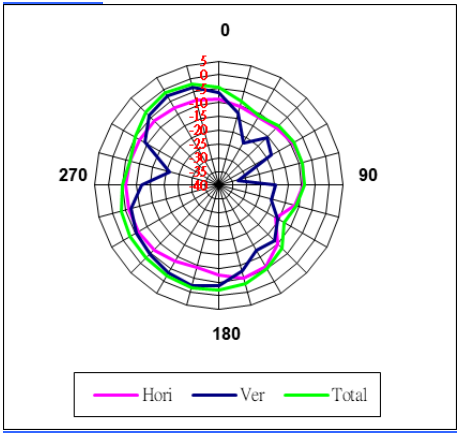
|                       |        |
|-----------------------|--------|
| Center Frequency      | 663MHz |
| Horizontal (dBi) peak | -1.86  |
| Vertical (dBi) peak   | -2.51  |

698MHz



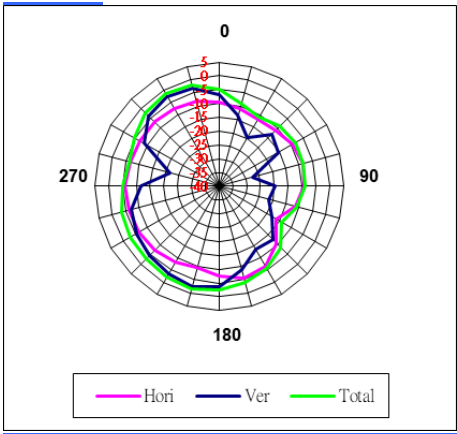
|                       |        |
|-----------------------|--------|
| Center Frequency      | 698MHz |
| Horizontal (dBi) peak | -2.35  |
| Vertical (dBi) peak   | -1.74  |

896MHz



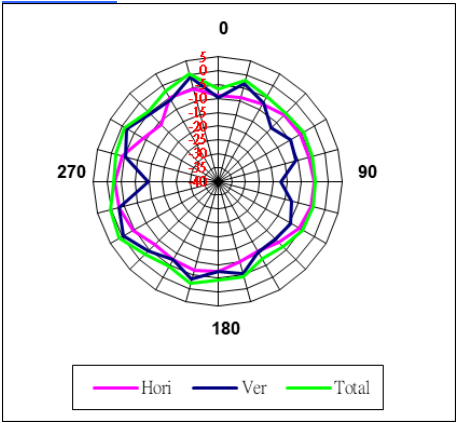
|                       |        |
|-----------------------|--------|
| Center Frequency      | 896MHz |
| Horizontal (dBi) peak | -5.13  |
| Vertical (dBi) peak   | -2.36  |

901MHz



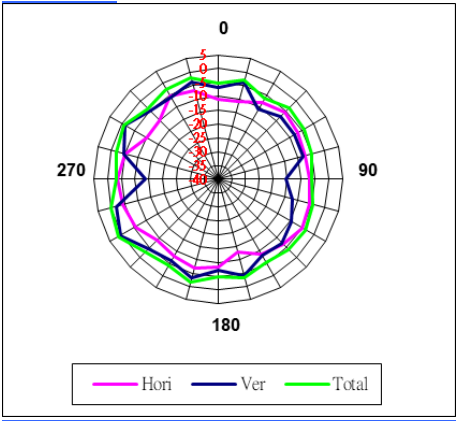
|                       |        |
|-----------------------|--------|
| Center Frequency      | 901MHz |
| Horizontal (dBi) peak | -5.47  |
| Vertical (dBi) peak   | -2.36  |

1920MHz



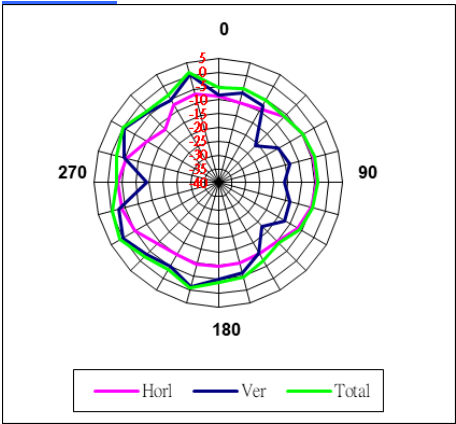
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1920MHz |
| Horizontal (dBi) peak | -2.62   |
| Vertical (dBi) peak   | -0.33   |

1980MHz



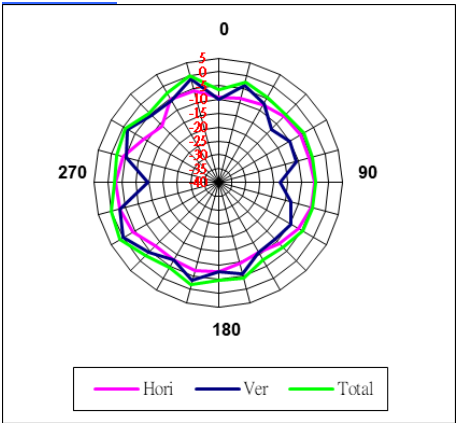
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1980MHz |
| Horizontal (dBi) peak | -3.69   |
| Vertical (dBi) peak   | 0.46    |

1850MHz

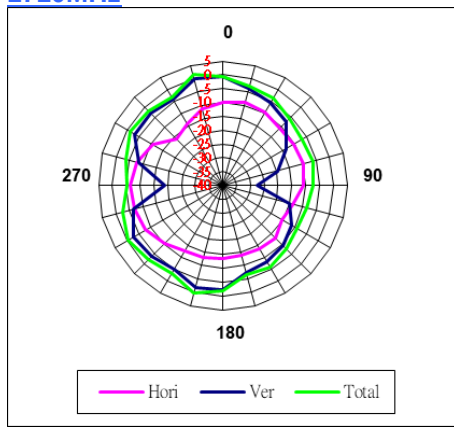


|                       |         |
|-----------------------|---------|
| Center Frequency      | 1850MHz |
| Horizontal (dBi) peak | -3.57   |
| Vertical (dBi) peak   | 0.37    |

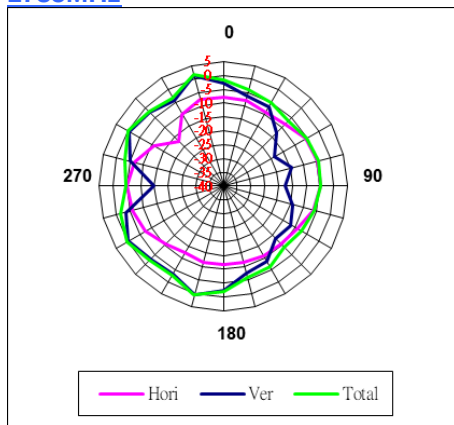
1910MHz



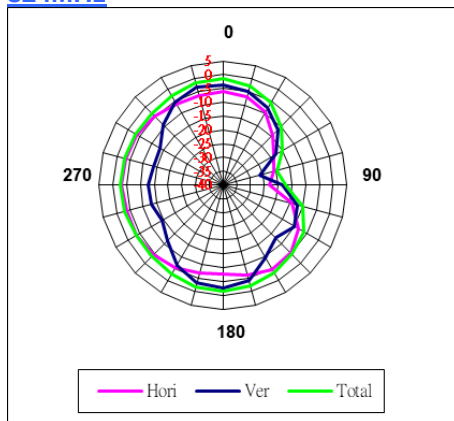
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1910MHz |
| Horizontal (dBi) peak | -2.8    |
| Vertical (dBi) peak   | -0.41   |

**1710MHz**

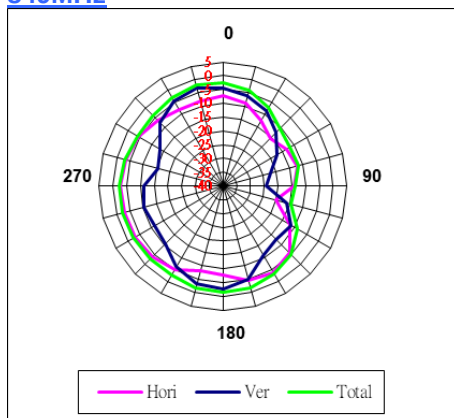
|                       |                |
|-----------------------|----------------|
| Center Frequency      | <b>1710MHz</b> |
| Horizontal (dBi) peak | <b>-6.57</b>   |
| Vertical (dBi) peak   | <b>-0.15</b>   |

**1785MHz**

|                       |                |
|-----------------------|----------------|
| Center Frequency      | <b>1785MHz</b> |
| Horizontal (dBi) peak | <b>-4.65</b>   |
| Vertical (dBi) peak   | <b>1.15</b>    |

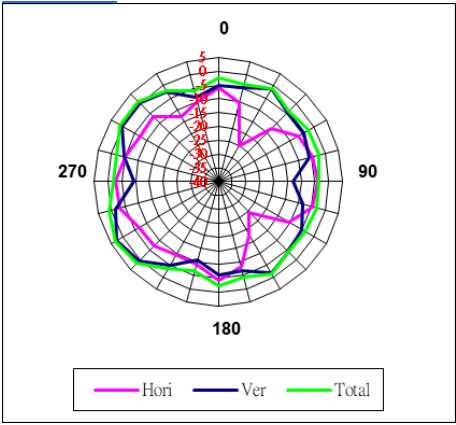
**824MHz**

|                       |               |
|-----------------------|---------------|
| Center Frequency      | <b>824MHz</b> |
| Horizontal (dBi) peak | <b>-3.26</b>  |
| Vertical (dBi) peak   | <b>-2.45</b>  |

**849MHz**

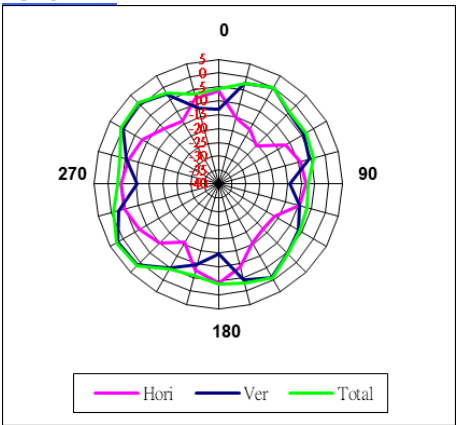
|                       |               |
|-----------------------|---------------|
| Center Frequency      | <b>849MHz</b> |
| Horizontal (dBi) peak | <b>-2.81</b>  |
| Vertical (dBi) peak   | <b>-2.51</b>  |

2500MHz



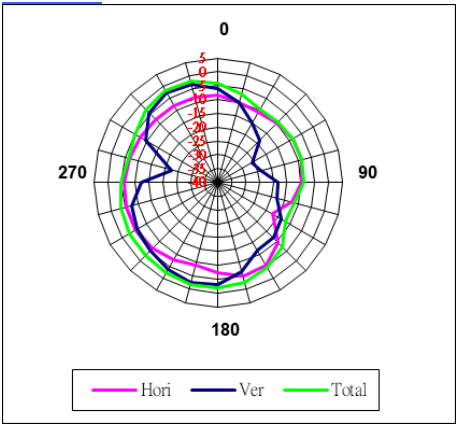
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2500MHz |
| Horizontal (dBi) peak | -2.86   |
| Vertical (dBi) peak   | 2.74    |

2570MHz



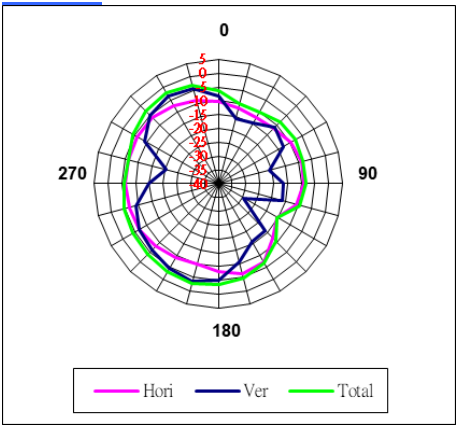
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2570MHz |
| Horizontal (dBi) peak | -4.36   |
| Vertical (dBi) peak   | 1.94    |

880MHz



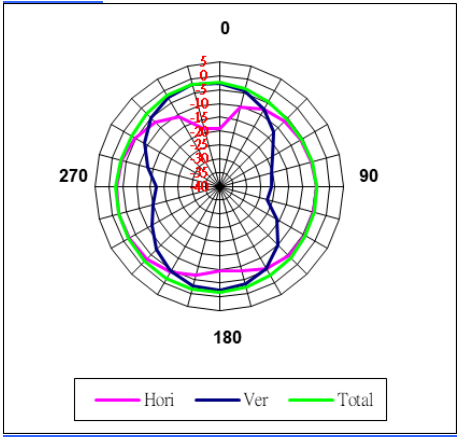
|                       |        |
|-----------------------|--------|
| Center Frequency      | 880MHz |
| Horizontal (dBi) peak | -4.87  |
| Vertical (dBi) peak   | -2.54  |

915MHz



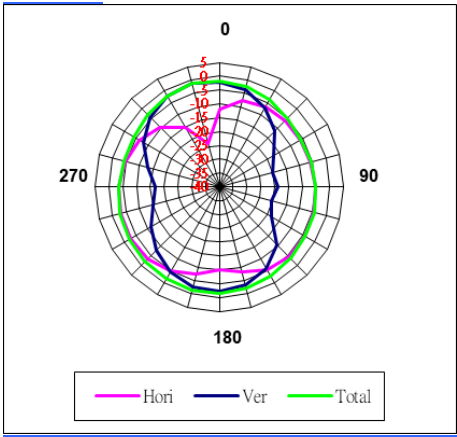
|                       |        |
|-----------------------|--------|
| Center Frequency      | 915MHz |
| Horizontal (dBi) peak | -6.11  |
| Vertical (dBi) peak   | -3.45  |

699MHz



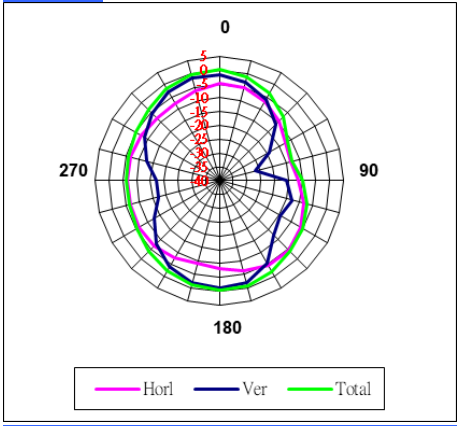
|                       |        |
|-----------------------|--------|
| Center Frequency      | 699MHz |
| Horizontal (dBi) peak | -2.35  |
| Vertical (dBi) peak   | -1.74  |

716MHz



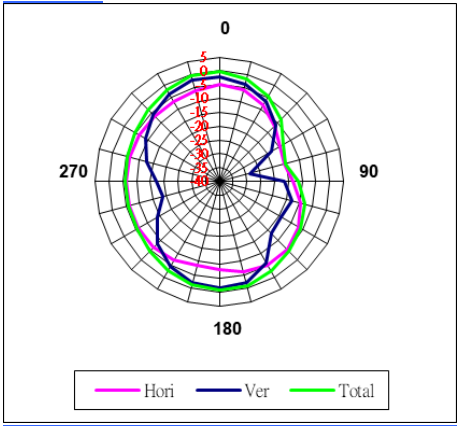
|                       |        |
|-----------------------|--------|
| Center Frequency      | 716MHz |
| Horizontal (dBi) peak | -2.79  |
| Vertical (dBi) peak   | -1.42  |

777MHz



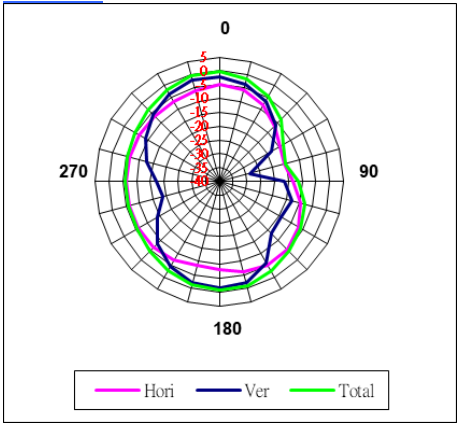
|                       |        |
|-----------------------|--------|
| Center Frequency      | 777MHz |
| Horizontal (dBi) peak | -4.64  |
| Vertical (dBi) peak   | -1.15  |

787MHz



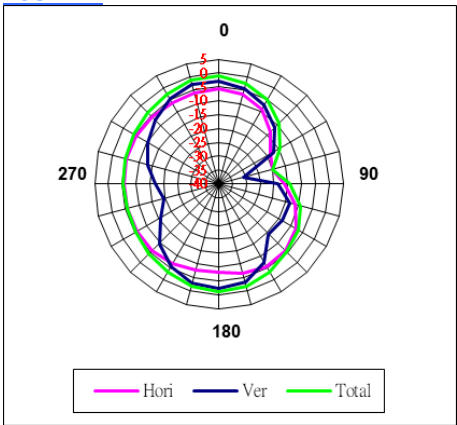
|                       |        |
|-----------------------|--------|
| Center Frequency      | 787MHz |
| Horizontal (dBi) peak | -4.99  |
| Vertical (dBi) peak   | -1.4   |

788MHz



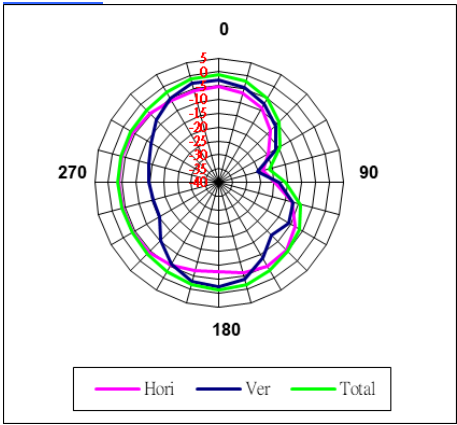
|                       |        |
|-----------------------|--------|
| Center Frequency      | 788MHz |
| Horizontal (dBi) peak | -5.07  |
| Vertical (dBi) peak   | -1.59  |

798MHz



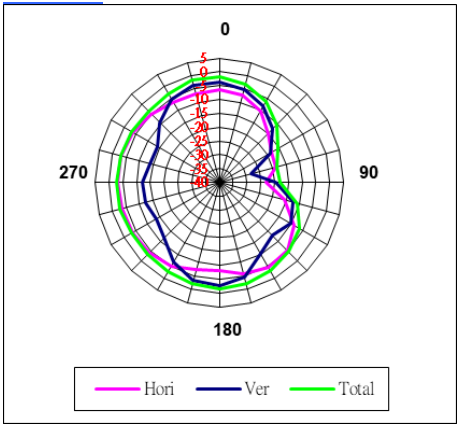
|                       |        |
|-----------------------|--------|
| Center Frequency      | 798MHz |
| Horizontal (dBi) peak | -5.48  |
| Vertical (dBi) peak   | -2.14  |

815MHz



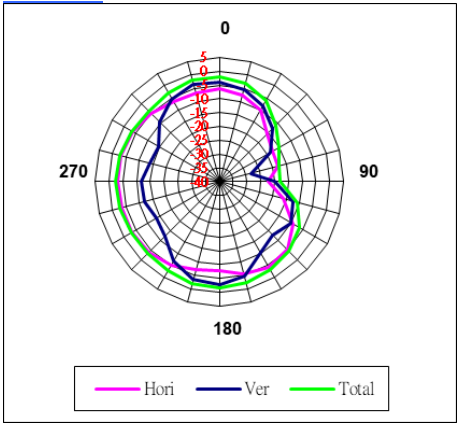
|                       |        |
|-----------------------|--------|
| Center Frequency      | 815MHz |
| Horizontal (dBi) peak | -3.66  |
| Vertical (dBi) peak   | -2.12  |

830MHz



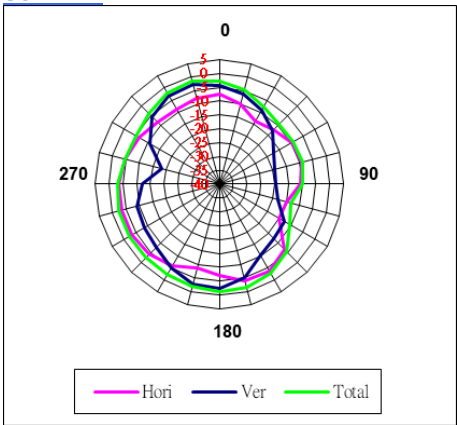
|                       |        |
|-----------------------|--------|
| Center Frequency      | 830MHz |
| Horizontal (dBi) peak | -3.15  |
| Vertical (dBi) peak   | -2.67  |

832MHz



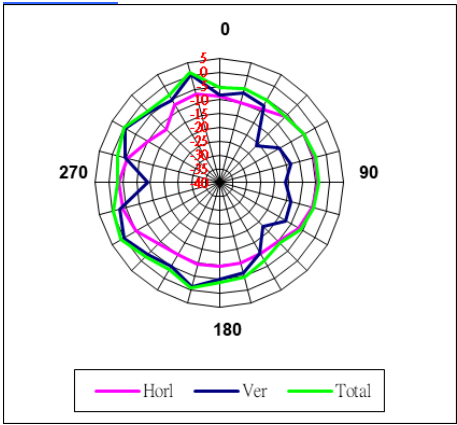
|                       |        |
|-----------------------|--------|
| Center Frequency      | 832MHz |
| Horizontal (dBi) peak | -3.06  |
| Vertical (dBi) peak   | -2.63  |

862MHz



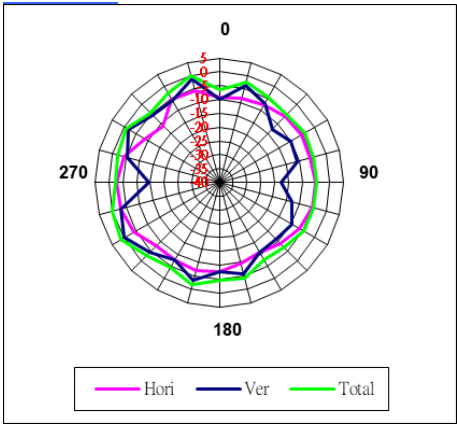
|                       |        |
|-----------------------|--------|
| Center Frequency      | 862MHz |
| Horizontal (dBi) peak | -3.28  |
| Vertical (dBi) peak   | -2.49  |

1850MHz



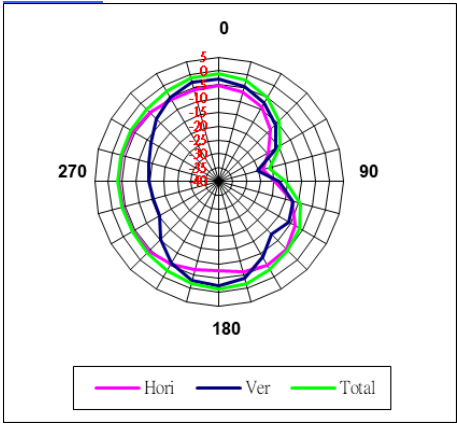
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1850MHz |
| Horizontal (dBi) peak | -3.57   |
| Vertical (dBi) peak   | 0.37    |

1915MHz



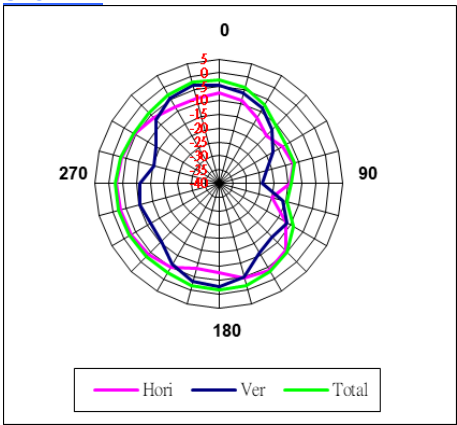
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1915MHz |
| Horizontal (dBi) peak | -2.72   |
| Vertical (dBi) peak   | -0.36   |

814MHz



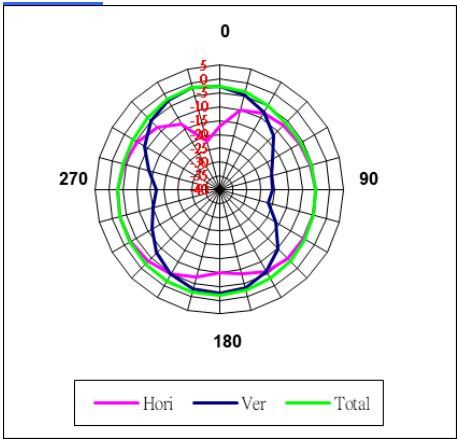
|                       |        |
|-----------------------|--------|
| Center Frequency      | 814MHz |
| Horizontal (dBi) peak | -3.66  |
| Vertical (dBi) peak   | -2.12  |

849MHz



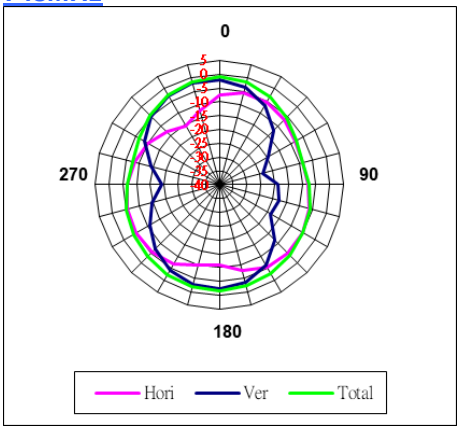
|                       |        |
|-----------------------|--------|
| Center Frequency      | 849MHz |
| Horizontal (dBi) peak | -2.81  |
| Vertical (dBi) peak   | -2.51  |

703MHz



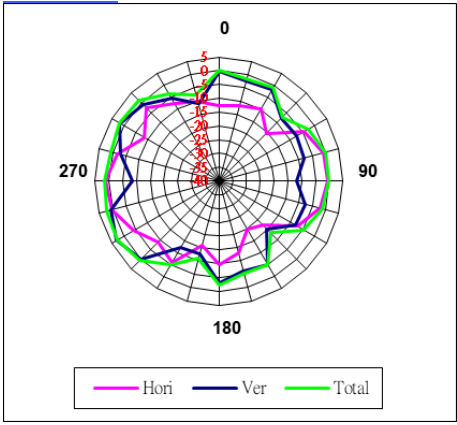
|                       |        |
|-----------------------|--------|
| Center Frequency      | 703MHz |
| Horizontal (dBi) peak | -2.81  |
| Vertical (dBi) peak   | -1.78  |

748MHz



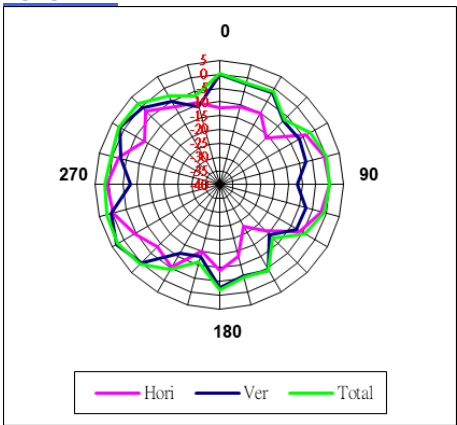
|                       |        |
|-----------------------|--------|
| Center Frequency      | 748MHz |
| Horizontal (dBi) peak | -4.9   |
| Vertical (dBi) peak   | -1.79  |

2305MHz



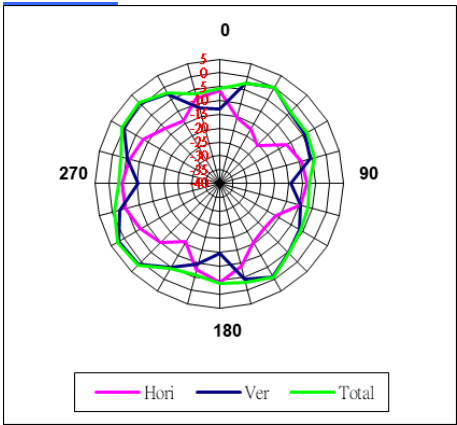
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2305MHz |
| Horizontal (dBi) peak | 1.27    |
| Vertical (dBi) peak   | 2.99    |

2315MHz



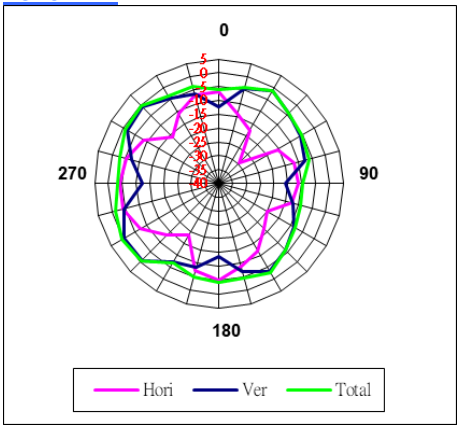
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2315MHz |
| Horizontal (dBi) peak | 0.92    |
| Vertical (dBi) peak   | 2.94    |

2570MHz



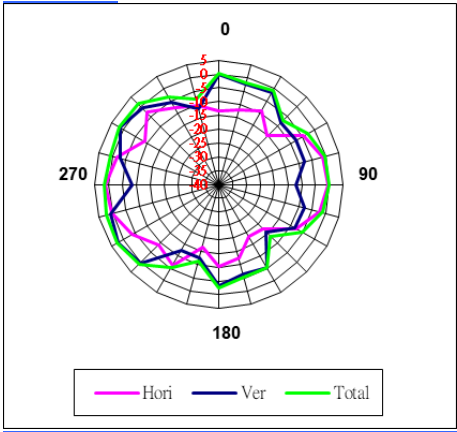
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2570MHz |
| Horizontal (dBi) peak | -4.36   |
| Vertical (dBi) peak   | 1.94    |

2620MHz



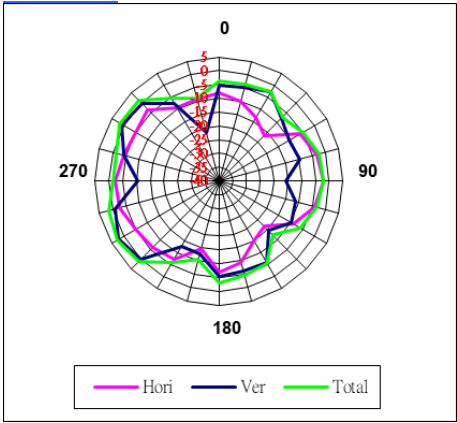
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2620MHz |
| Horizontal (dBi) peak | -4      |
| Vertical (dBi) peak   | -0.29   |

2300MHz



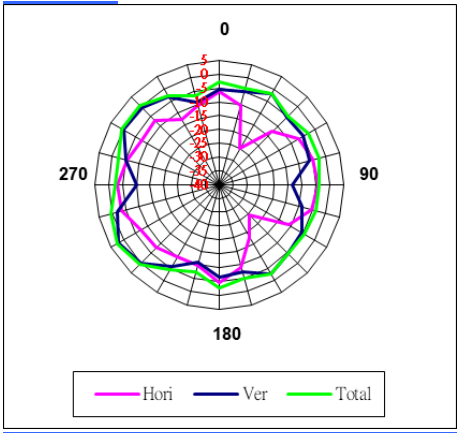
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2300MHz |
| Horizontal (dBi) peak | 1.32    |
| Vertical (dBi) peak   | 2.47    |

2400MHz



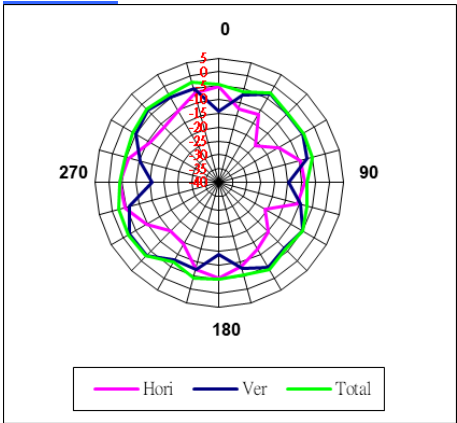
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2400MHz |
| Horizontal (dBi) peak | -2.21   |
| Vertical (dBi) peak   | 2.02    |

2496MHz



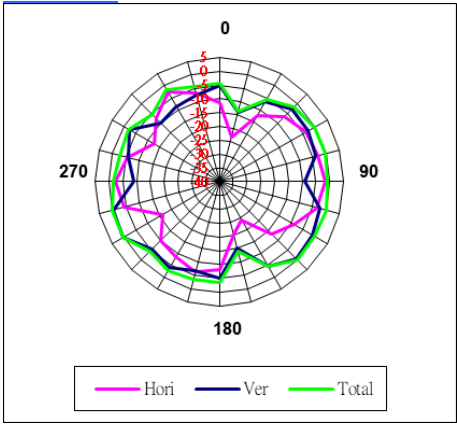
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2496MHz |
| Horizontal (dBi) peak | -3.2    |
| Vertical (dBi) peak   | 2.25    |

2690MHz



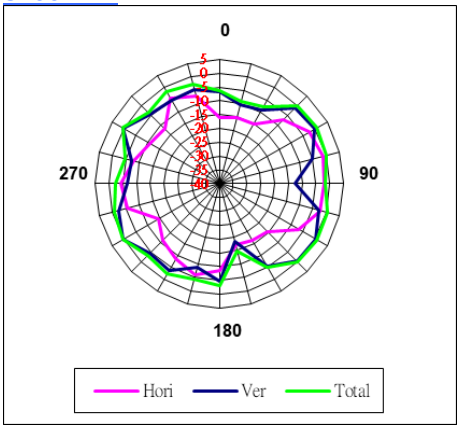
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2690MHz |
| Horizontal (dBi) peak | -4.18   |
| Vertical (dBi) peak   | -2.74   |

3550MHz



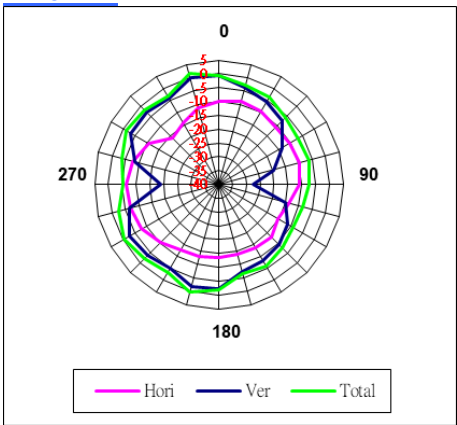
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3550MHz |
| Horizontal (dBi) peak | -1.8    |
| Vertical (dBi) peak   | 0.33    |

3700MHz



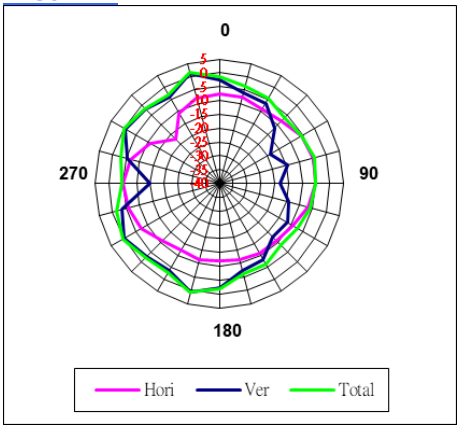
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3700MHz |
| Horizontal (dBi) peak | -1.29   |
| Vertical (dBi) peak   | 0.35    |

1710MHz



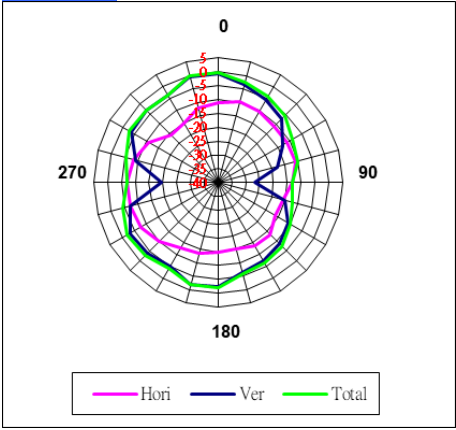
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1710MHz |
| Horizontal (dBi) peak | -6.57   |
| Vertical (dBi) peak   | -0.15   |

1780MHz



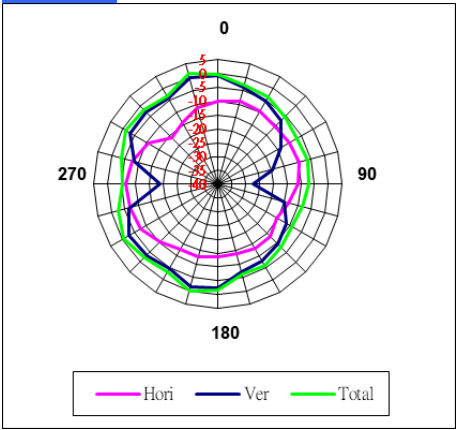
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1780MHz |
| Horizontal (dBi) peak | -4.90   |
| Vertical (dBi) peak   | 1.25    |

1695MHz



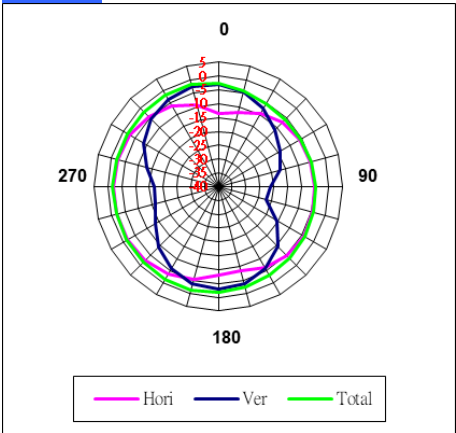
|                       |         |
|-----------------------|---------|
| Center Frequency      | 1695MHz |
| Horizontal (dBi) peak | -7.15   |
| Vertical (dBi) peak   | -0.36   |

1710MHz



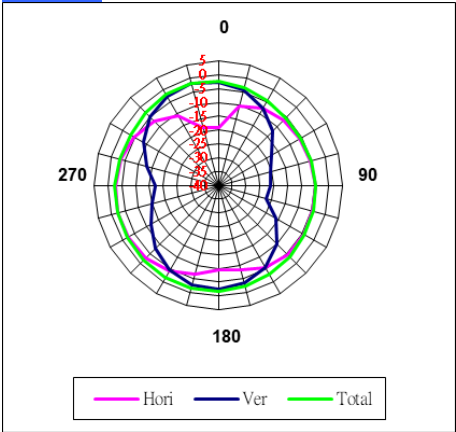
|                       |        |
|-----------------------|--------|
| Center Frequency      | 698MHz |
| Horizontal (dBi) peak | -6.57  |
| Vertical (dBi) peak   | -0.15  |

663MHz



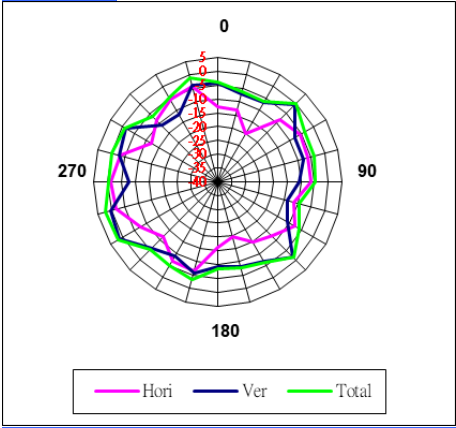
|                       |        |
|-----------------------|--------|
| Center Frequency      | 663MHz |
| Horizontal (dBi) peak | -1.86  |
| Vertical (dBi) peak   | -2.51  |

698MHz



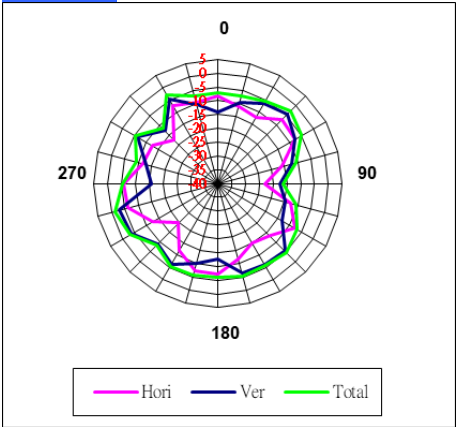
|                       |        |
|-----------------------|--------|
| Center Frequency      | 698MHz |
| Horizontal (dBi) peak | -2.35  |
| Vertical (dBi) peak   | -1.74  |

3300MHz



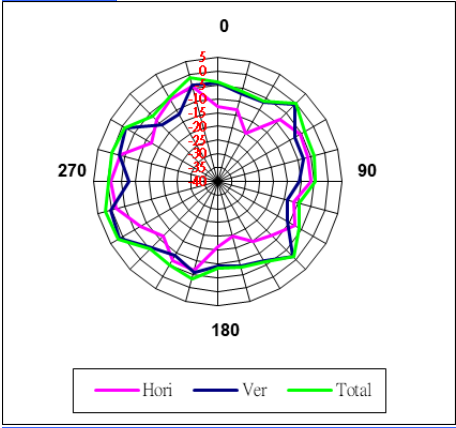
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3300MHz |
| Horizontal (dBi) peak | -1.03   |
| Vertical (dBi) peak   | 1.23    |

4200MHz



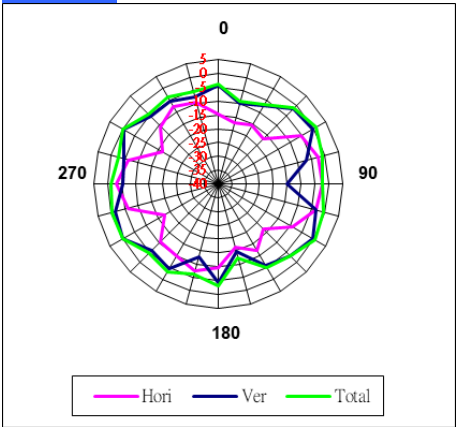
|                       |         |
|-----------------------|---------|
| Center Frequency      | 4200MHz |
| Horizontal (dBi) peak | -5.64   |
| Vertical (dBi) peak   | -2.72   |

3300MHz



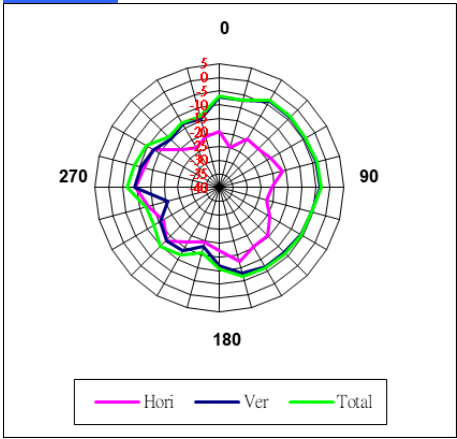
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3300MHz |
| Horizontal (dBi) peak | -1.03   |
| Vertical (dBi) peak   | 1.23    |

3800MHz



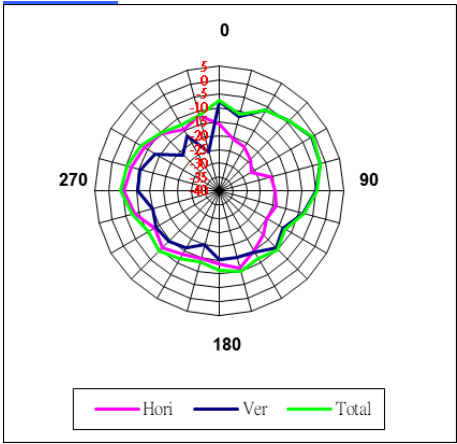
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3800MHz |
| Horizontal (dBi) peak | -2.28   |
| Vertical (dBi) peak   | -0.16   |

● **Ant6:**  
**2496MHz**



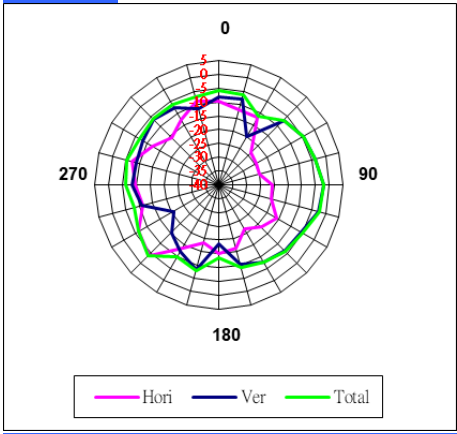
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2496MHz |
| Horizontal (dBi) peak | -9.5    |
| Vertical (dBi) peak   | -3.3    |

**2690MHz**



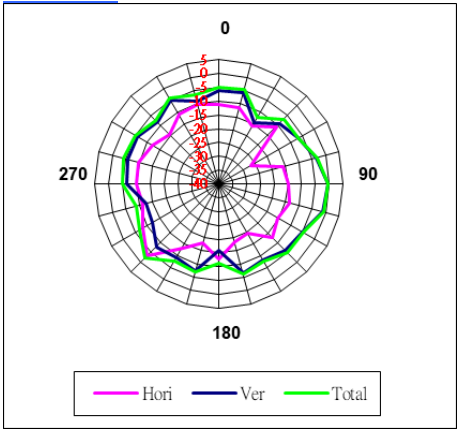
|                       |         |
|-----------------------|---------|
| Center Frequency      | 2690MHz |
| Horizontal (dBi) peak | -5.33   |
| Vertical (dBi) peak   | -1.1    |

**3550MHz**



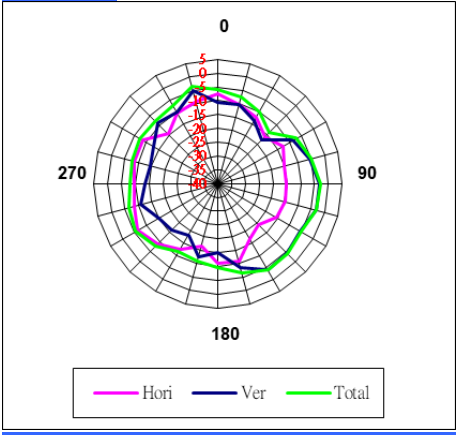
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3550MHz |
| Horizontal (dBi) peak | -3.88   |
| Vertical (dBi) peak   | -1.95   |

**3700MHz**



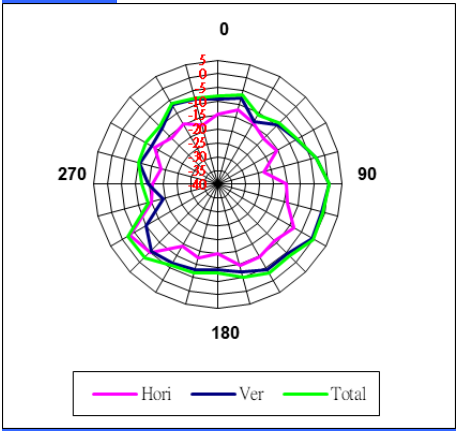
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3700MHz |
| Horizontal (dBi) peak | -3.15   |
| Vertical (dBi) peak   | -0.6    |

3300MHz



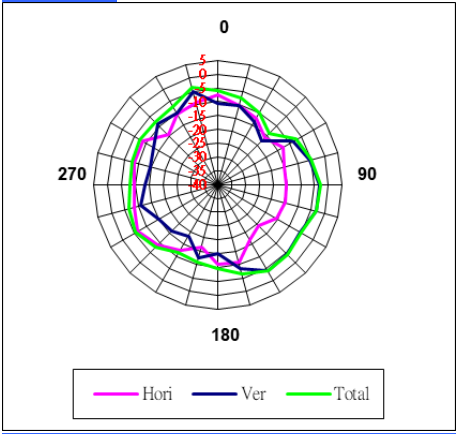
|                       |         |
|-----------------------|---------|
| Center Frequency      | 3300MHz |
| Horizontal (dBi) peak | -6.03   |
| Vertical (dBi) peak   | -3.26   |

4200MHz



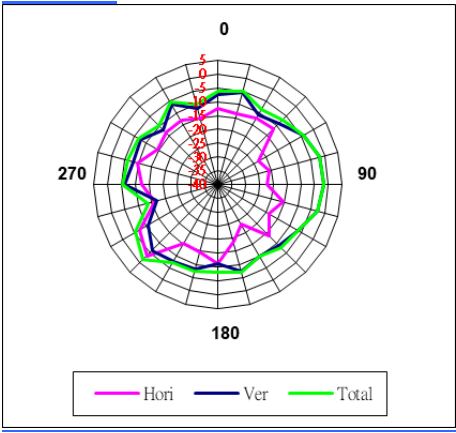
|                       |         |
|-----------------------|---------|
| Center Frequency      | 4200MHz |
| Horizontal (dBi) peak | -2.92   |
| Vertical (dBi) peak   | 0.2     |

3300MHz



|                       |         |
|-----------------------|---------|
| Center Frequency      | 3300MHz |
| Horizontal (dBi) peak | -6.03   |
| Vertical (dBi) peak   | -3.26   |

3800MHz



|                       |         |
|-----------------------|---------|
| Center Frequency      | 3800MHz |
| Horizontal (dBi) peak | -3.4    |
| Vertical (dBi) peak   | -1.68   |

## Section 8. Local representative contact information

Local representative contact information is required for regulatory support for target countries below.

|              | Local company name | Contact name | Phone number | FAX Number | e-Mail Address | Notes                                               |
|--------------|--------------------|--------------|--------------|------------|----------------|-----------------------------------------------------|
| Argentina    |                    |              |              |            |                |                                                     |
| Azerbaijan   |                    |              |              |            |                |                                                     |
| Cambodia     |                    |              |              |            |                |                                                     |
| Indonesia    |                    |              |              |            |                |                                                     |
| Israel       |                    |              |              |            |                |                                                     |
| Malaysia     |                    |              |              |            |                |                                                     |
| Philippines  |                    |              |              |            |                |                                                     |
| Singapore    |                    |              |              |            |                | Telecommunication Equipment Dealer License Required |
| South Africa |                    |              |              |            |                |                                                     |
| USA, Canada  |                    |              |              |            |                |                                                     |
| Vietnam      |                    |              |              |            |                |                                                     |