

Regulatory Antenna Information

(English Required)

Antenna Information

I. Antenna Assembly Specifications

Antenna assembly overview: Peak Gain including cable loss.

| Designator | Manufacture | Antenna type | Cable Assembly Info. | Peak Gain W/ Cable loss, dBi |
|--|----------------|--------------|---|--------------------------------------|
| Main antenna (P/N: WDAN-Q1CT1001) | FOXCONN | PIFA | 50 ohm Coaxial with 1.13 mm OD Length: 550 mm Connector: SGX | 2400-2500MHz 2.510 |
| | | | | 5150-5350MHz -1.050 |
| | | | | 5470-5725MHz -1.090 |
| | | | | 5725-5850MHz -1.890 |
| Auxiliary antenna (P/N: WDAN-Q1CT1001) | FOXCONN | PIFA | 50 ohm Coaxial with 1.13 mm OD Length: 695 mm Connector: SGX | 2400-2500MHz 2.110 |
| | | | | 5150-5350MHz -2.940 |
| | | | | 5470-5725MHz -1.840 |
| | | | | 5725-5850MHz -2.710 |

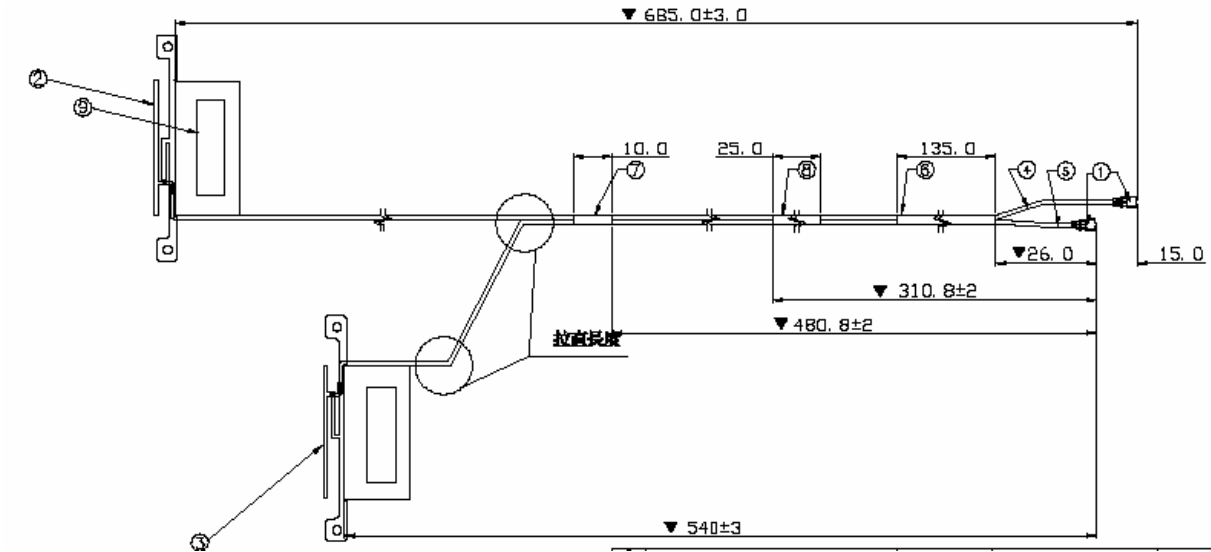
Antenna overview: Peak Gain not including cable loss.

| Antenna Designator | Manufacture | Antenna type | Peak Gain w/o Cable Loss, dBi |
|--|----------------|---------------------------------------|-------------------------------|
| Main antenna (P/N: WDAN-Q1CT1001) | FOXCONN | PIFA with sheet metal material | 2400-2500MHz 4.003 |
| | | | 5150-5350MHz 1.200 |
| | | | 5470-5725MHz 1.237 |
| | | | 5725-5850MHz 0.471 |
| Auxiliary antenna (P/N: WDAN-Q1CT1001) | FOXCONN | PIFA with sheet metal material | 2400-2500MHz 3.997 |
| | | | 5150-5350MHz -0.056 |
| | | | 5470-5725MHz 1.101 |
| | | | 5725-5850MHz 0.274 |

Cable assembly overview: Cable loss (including connector).

| Designator | Manufacture | Cable type and Length | VSWR, max | Cable Loss, dBi (peak) |
|--|----------------|---|------------------------------|-------------------------------|
| Main antenna (P/N: WDAN-Q1CT1001) | FOXCONN | (p/n: 703-3200-211) 50 ohm Coaxial 550 mm Length | 2400-2500MHz 1.556 | 2400-2500MHz -1.493 |
| | | | 5150-5350MHz 1.564 | 5150-5350MHz -2.250 |
| | | | 5470-5725MHz 1.552 | 5470-5725MHz -2.327 |
| | | | 5725-5850MHz 1.548 | 5725-5850MHz -2.361 |
| Auxiliary antenna (P/N: WDAN-Q1CT1001) | FOXCONN | (p/n: 703-3208-211) 50 ohm Coaxial 695 mm Length | 2400-2500MHz 1.324 | 2400-2500MHz -1.887 |
| | | | 5150-5350MHz 1.483 | 5150-5350MHz -2.844 |
| | | | 5470-5725MHz 1.536 | 5470-5725MHz -2.941 |
| | | | 5725-5850MHz 1.293 | 5725-5850MHz -2.984 |

Please insert mechanical drawings of antenna here.
Main & Aux Antenna Assembly

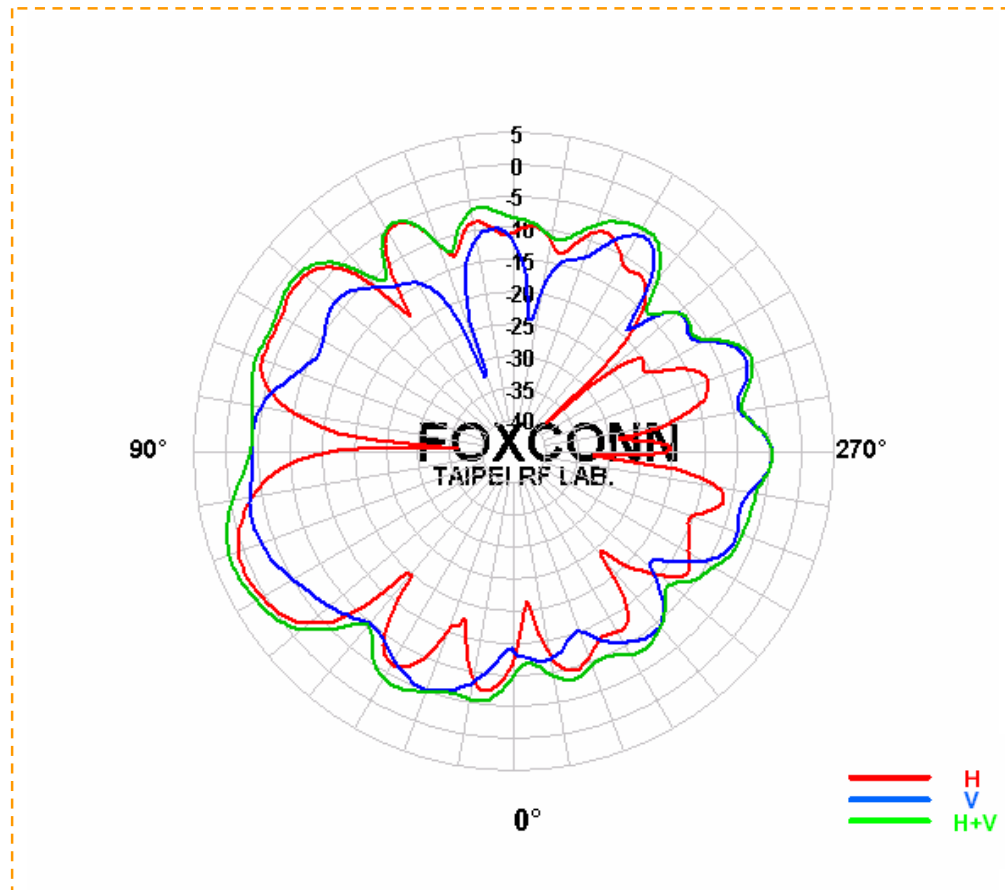


Radiation characteristic of antennae {Free Space / Loaded (In Host System) }

Total Gain, dBi = $10 \cdot \log(10^{(\text{Horizontal Partial Gain, dBi}/10)} + 10^{(\text{Vertical Polarization Partial Gain, dBi}/10)})$
* Horiz+Vert (dBi) peak = $10 \cdot \log(10^{(\text{Horizontal (dBi) peak}/10)} + 10^{(\text{Vertical (dBi) peak}/10)})$

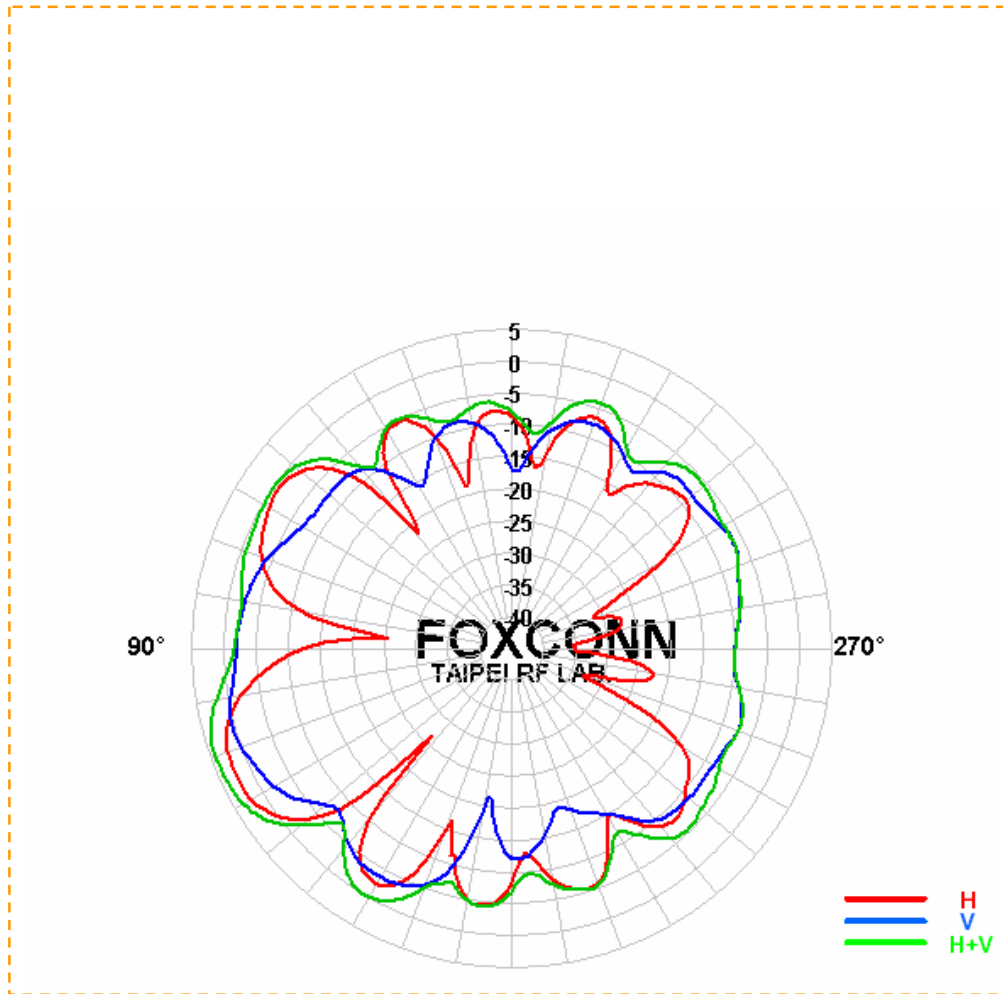
2400-2500MHz radiation characteristic

Main antenna: 2400 MHz



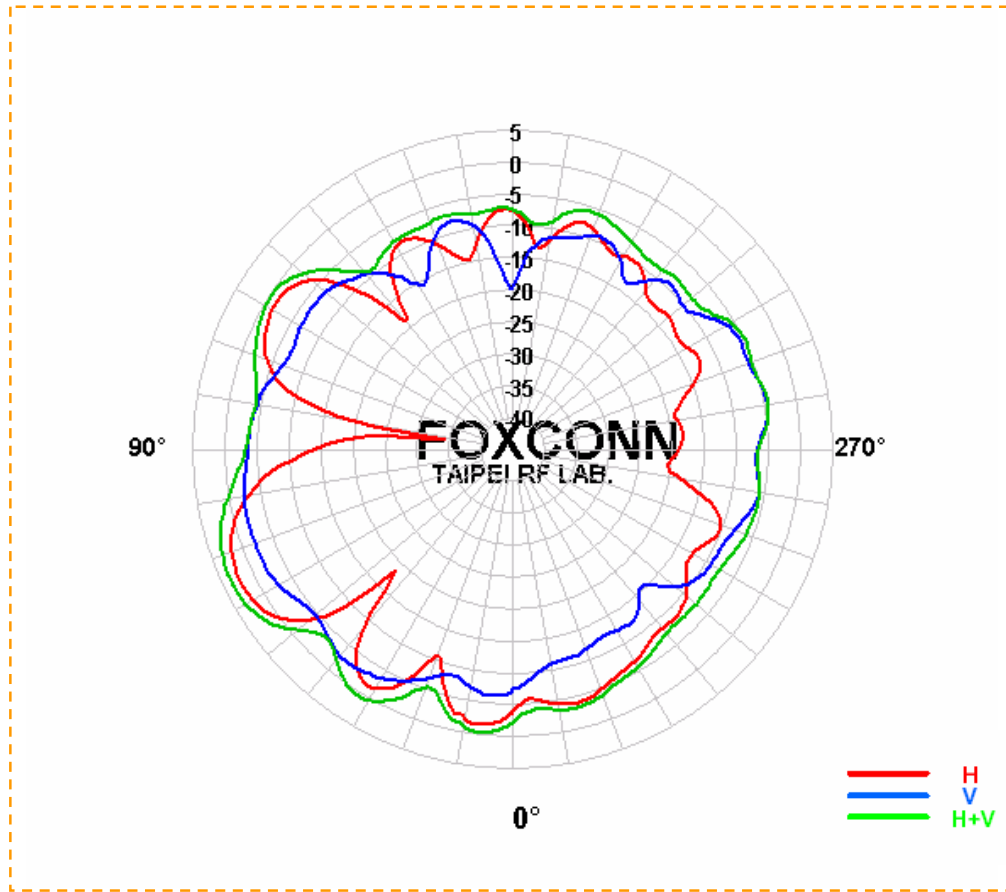
| | |
|-----------------------|-----------------|
| Center Frequency | 2400 MHz |
| Horizontal (dBi) peak | 1.16 |
| Vertical (dBi) peak | -2.70 |
| Horz+Vert (dBi) peak | 2.45 |

Main antenna: 2450 MHz



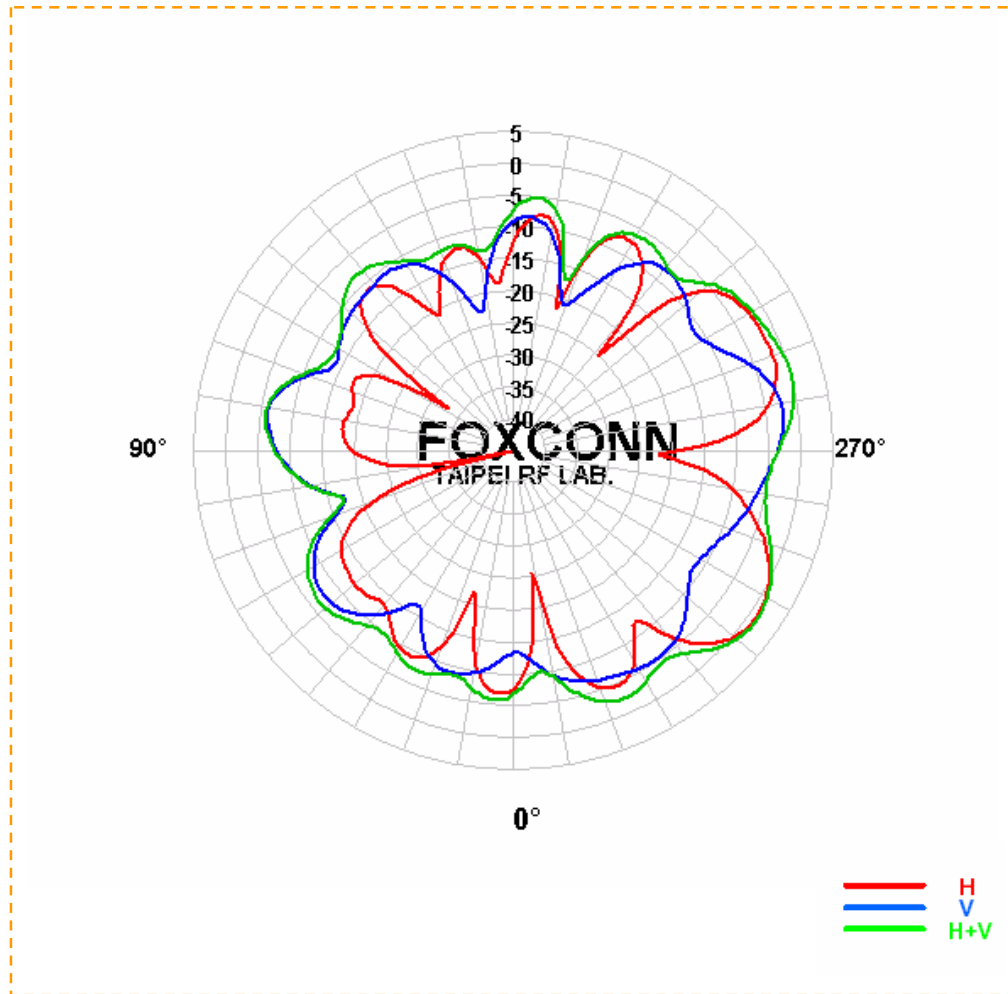
| | |
|-----------------------|-----------------|
| Center Frequency | 2450 MHz |
| Horizontal (dBi) peak | 2.51 |
| Vertical (dBi) peak | 0.41 |
| Horz+Vert (dBi) peak | 4.31 |

Main antenna: 2500 MHz



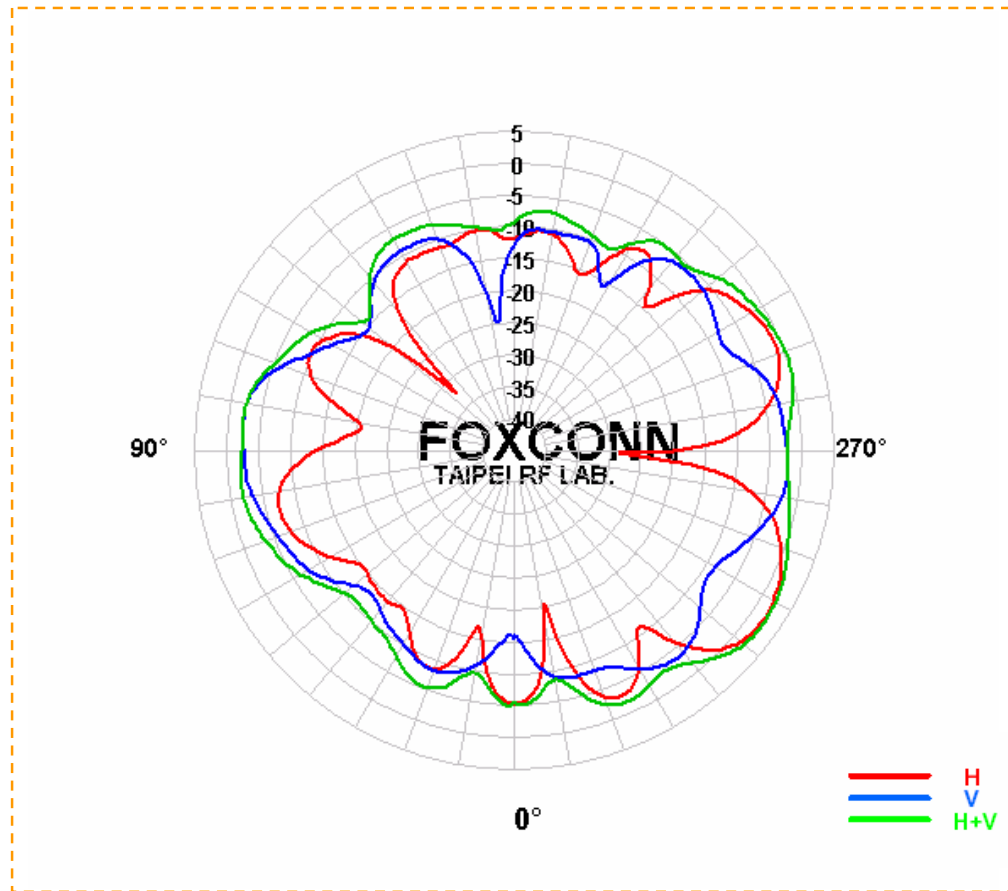
| | |
|-----------------------|----------|
| Center Frequency | 2500 MHz |
| Horizontal (dBi) peak | 2.34 |
| Vertical (dBi) peak | -2.08 |
| Horz+Vert (dBi) peak | 3.63 |

Auxiliary antenna: 2400 MHz



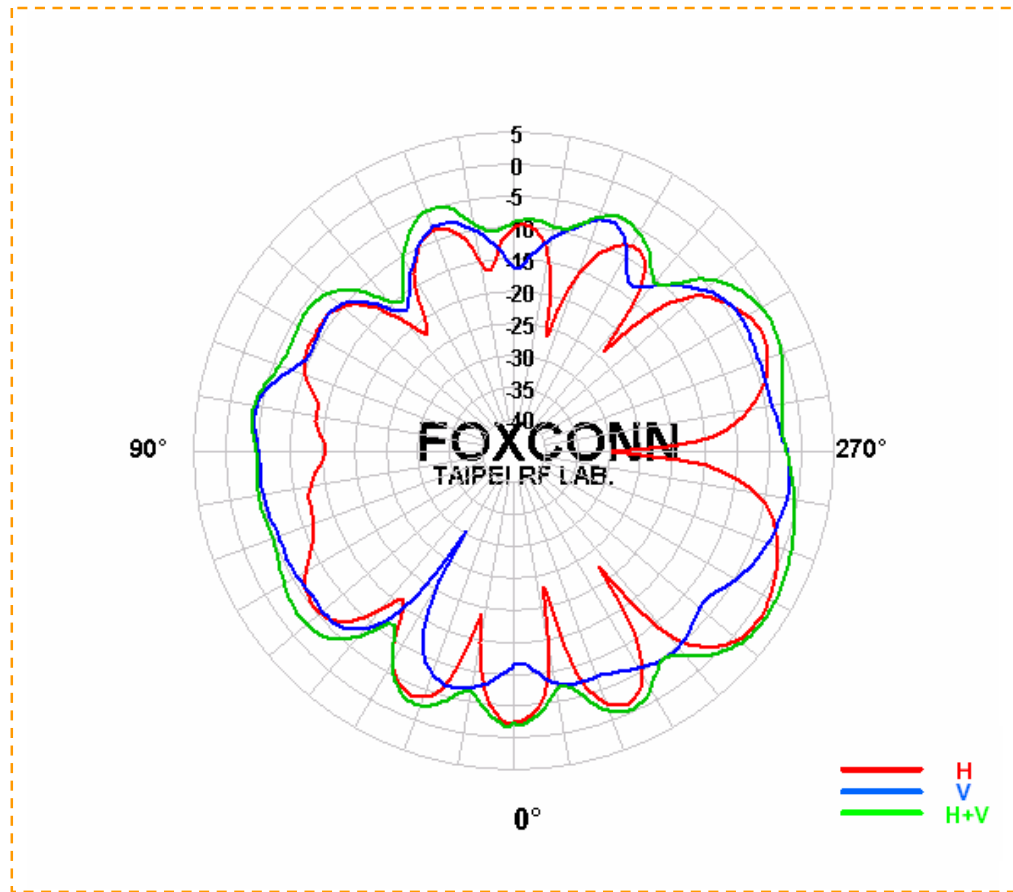
| | |
|-----------------------|-----------------|
| Center Frequency | 2400 MHz |
| Horizontal (dBi) peak | 1.22 |
| Vertical (dBi) peak | -2.31 |
| Horz+Vert (dBi) peak | 1.46 |

Auxiliary antenna: 2450 MHz



| | |
|-----------------------|----------|
| Center Frequency | 2450 MHz |
| Horizontal (dBi) peak | 2.21 |
| Vertical (dBi) peak | -1.97 |
| Horz+Vert (dBi) peak | 2.54 |

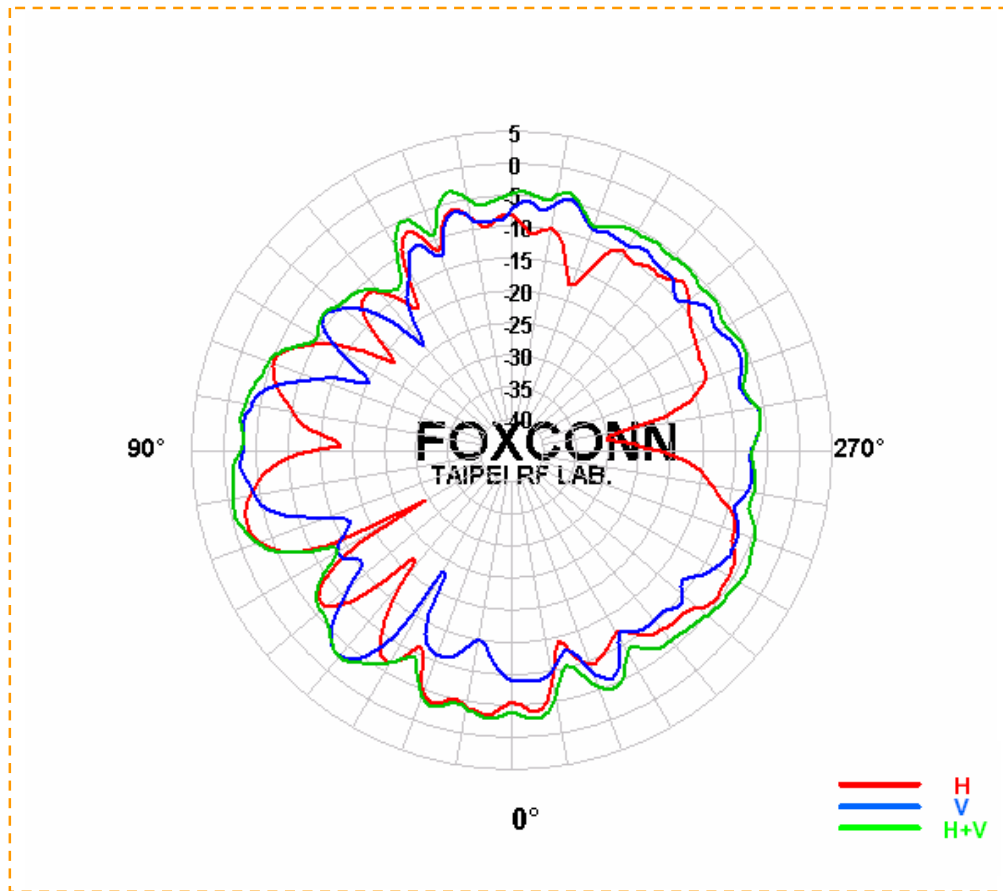
Auxiliary antenna: 2500 MHz



| | |
|-----------------------|-----------------|
| Center Frequency | 2500 MHz |
| Horizontal (dBi) peak | 1.65 |
| Vertical (dBi) peak | -1.44 |
| Horz+Vert (dBi) peak | 2.35 |

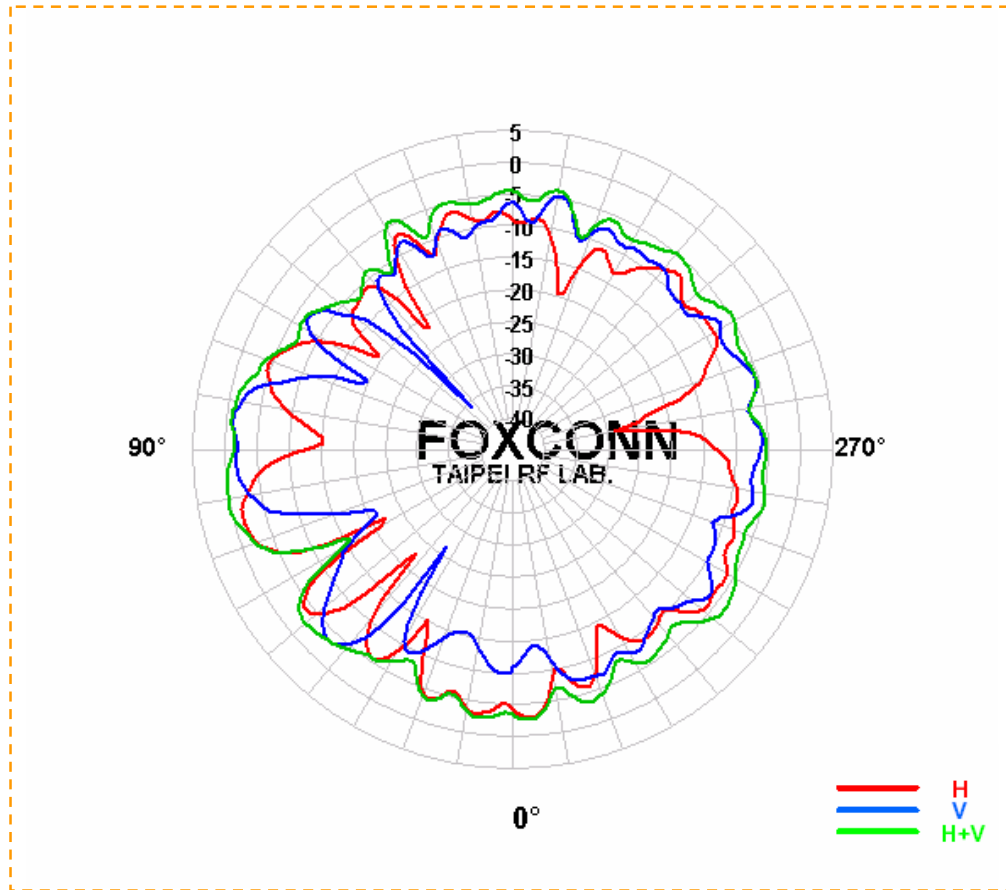
5150-5135 MHz radiation characteristic

Main antenna: 5150 MHz



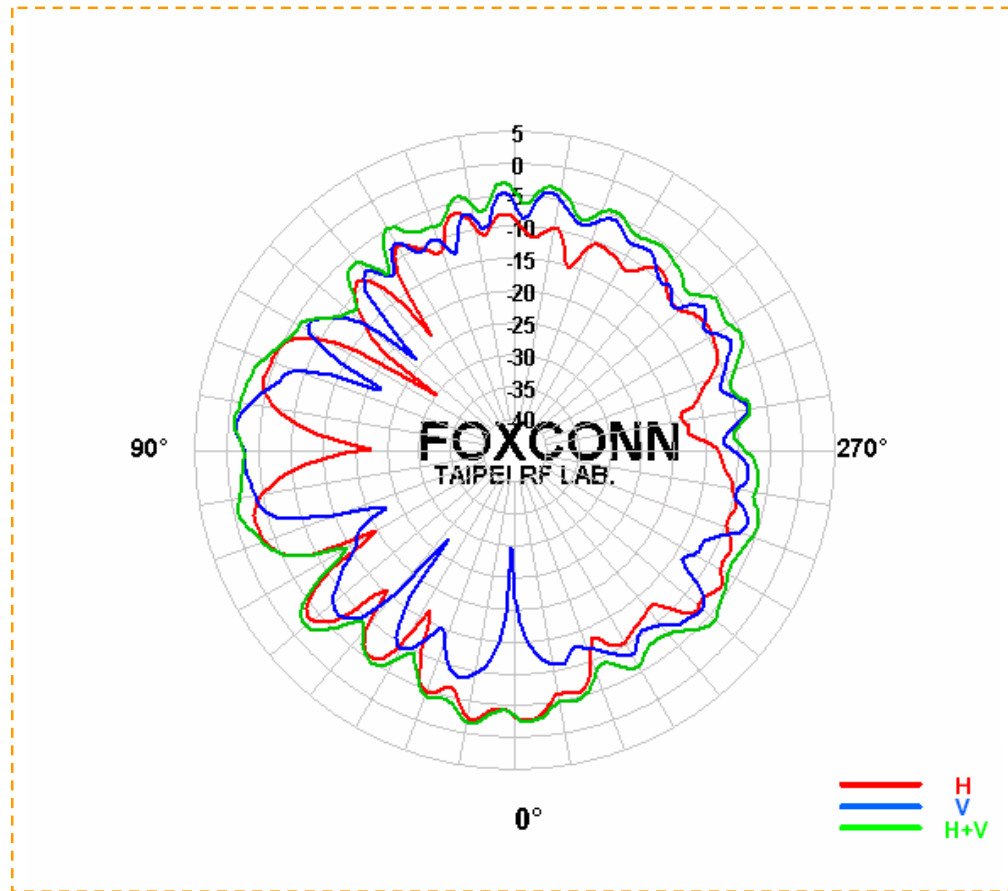
| | |
|-----------------------|-----------------|
| Center Frequency | 5150 MHz |
| Horizontal (dBi) peak | -2.05 |
| Vertical (dBi) peak | -2.55 |
| Horz+Vert (dBi) peak | -0.53 |

Main antenna: 5250 MHz



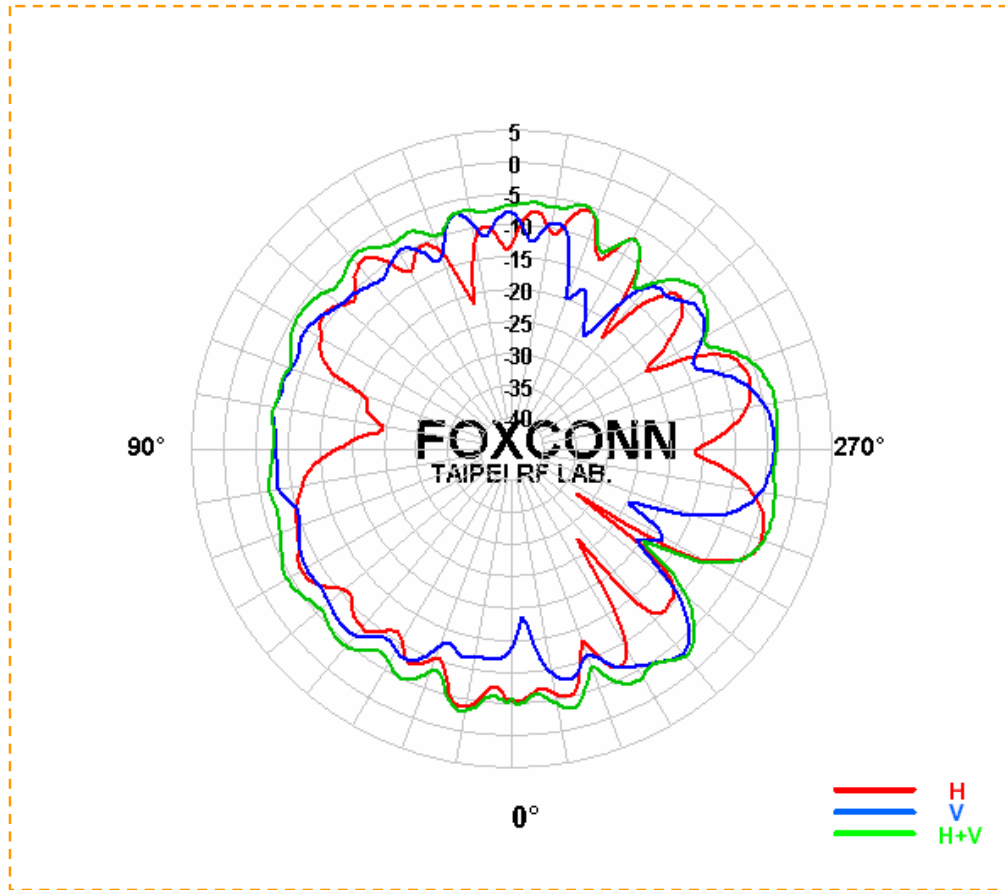
| | |
|-----------------------|-----------------|
| Center Frequency | 5250 MHz |
| Horizontal (dBi) peak | -1.45 |
| Vertical (dBi) peak | -1.05 |
| Horz+Vert (dBi) peak | 0.13 |

Main antenna: 5350 MHz



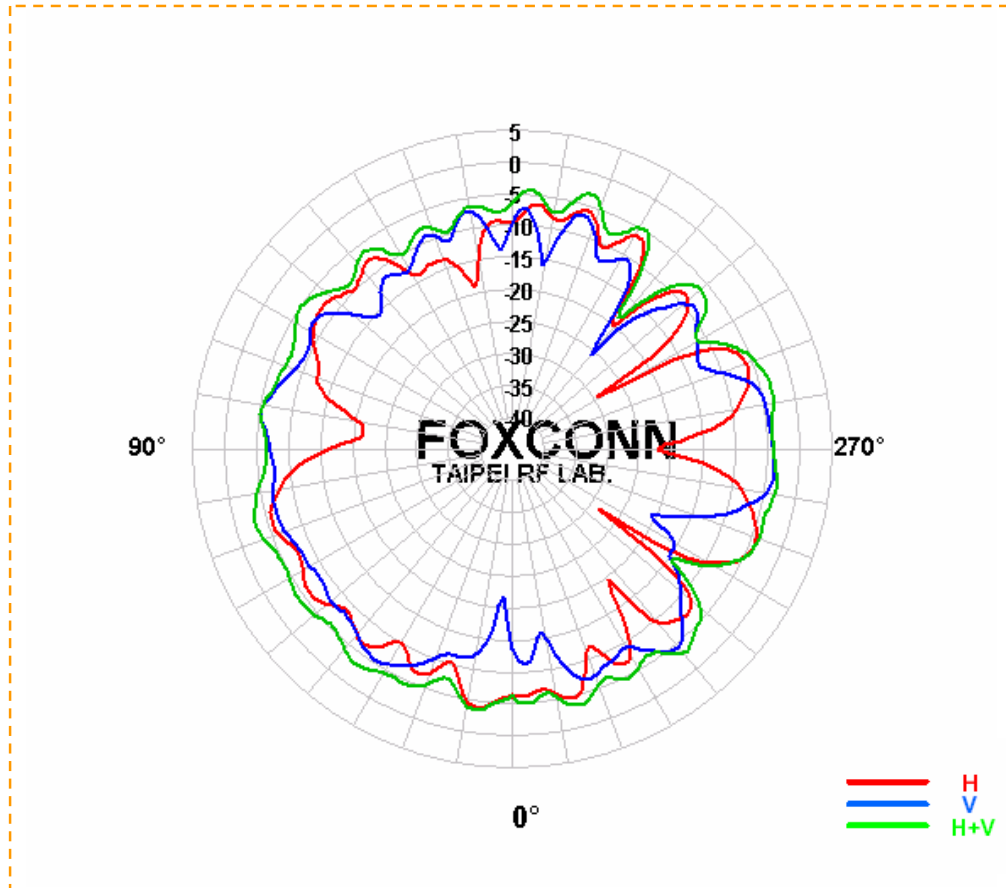
| | |
|-----------------------|-----------------|
| Center Frequency | 5350 MHz |
| Horizontal (dBi) peak | -2.33 |
| Vertical (dBi) peak | -1.26 |
| Horz+Vert (dBi) peak | -0.79 |

Auxiliary antenna: 5150 MHz



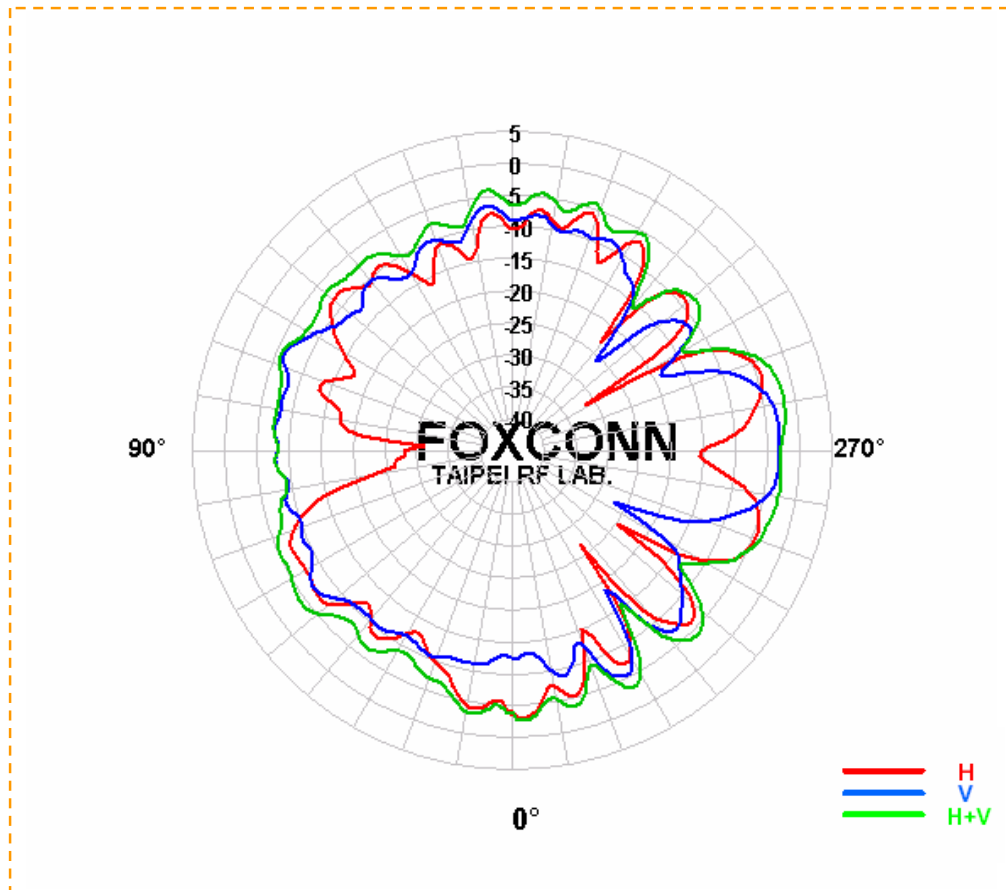
| | |
|-----------------------|-----------------|
| Center Frequency | 5150 MHz |
| Horizontal (dBi) peak | -3.38 |
| Vertical (dBi) peak | -3.15 |
| Horz+Vert (dBi) peak | -2.66 |

Auxiliary antenna: 5250 MHz



| | |
|-----------------------|-----------------|
| Center Frequency | 5250 MHz |
| Horizontal (dBi) peak | -4.02 |
| Vertical (dBi) peak | -3.74 |
| Horz+Vert (dBi) peak | -3.05 |

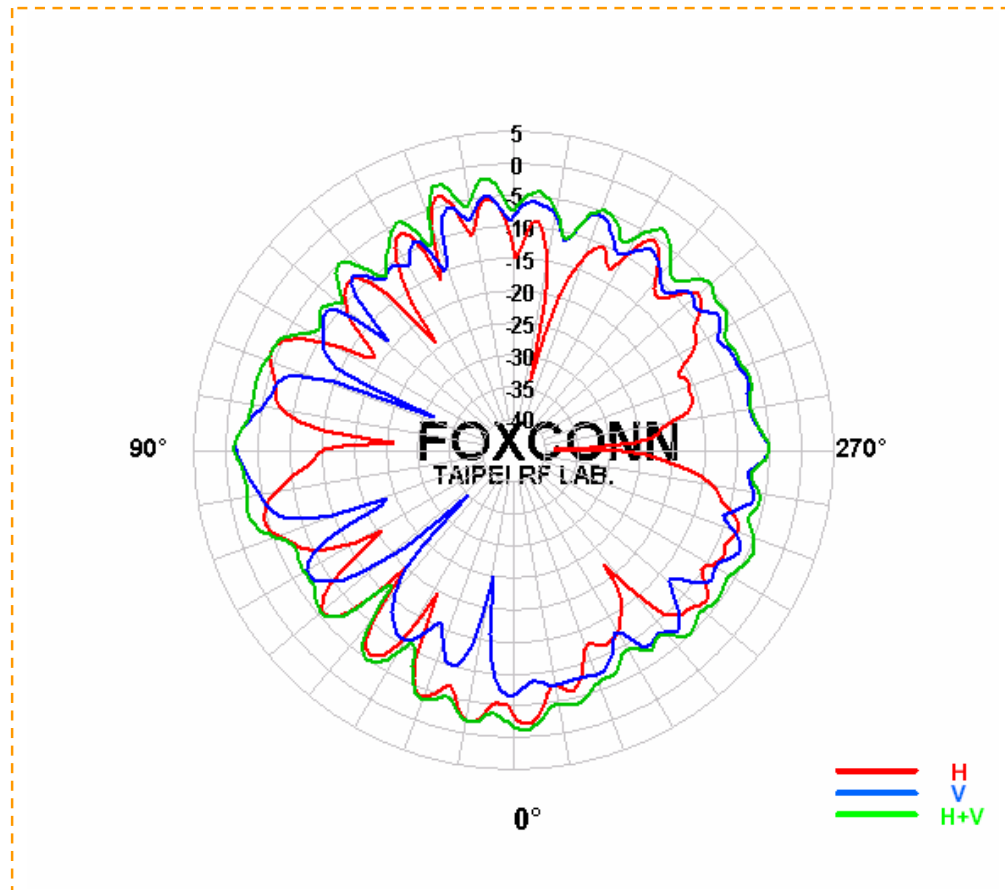
Auxiliary antenna: 5350 MHz



| | |
|-----------------------|----------|
| Center Frequency | 5350 MHz |
| Horizontal (dBi) peak | -2.94 |
| Vertical (dBi) peak | -2.99 |
| Horz+Vert (dBi) peak | -1.62 |

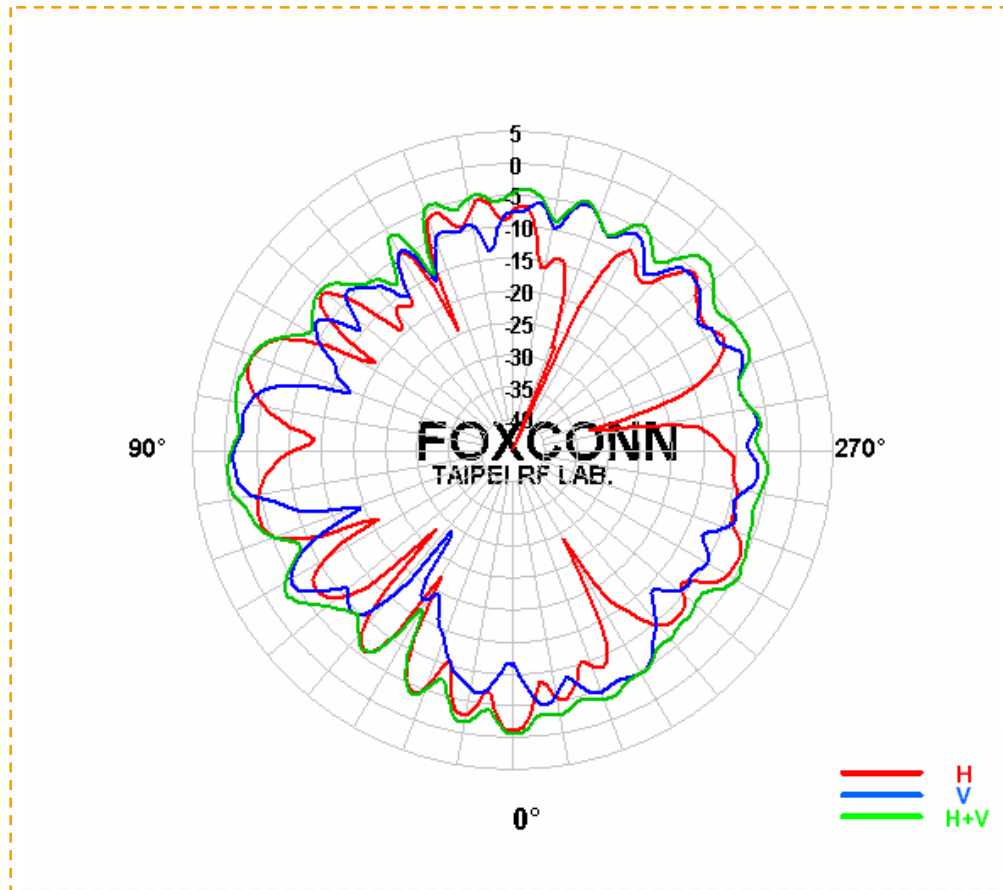
5470-5725MHz radiation characteristic

Main antenna: 5470 MHz



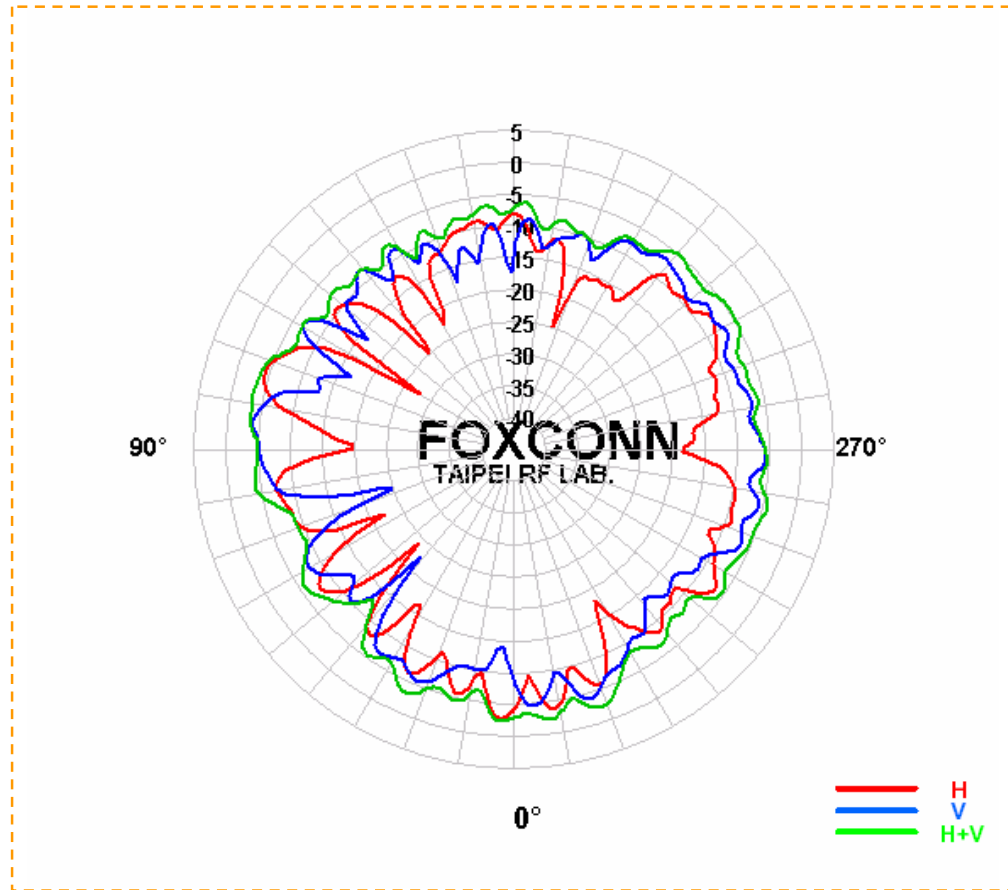
| | |
|-----------------------|-----------------|
| Center Frequency | 5470 MHz |
| Horizontal (dBi) peak | -1.94 |
| Vertical (dBi) peak | -1.46 |
| Horz+Vert (dBi) peak | -1.14 |

Main antenna: 5597.5 MHz



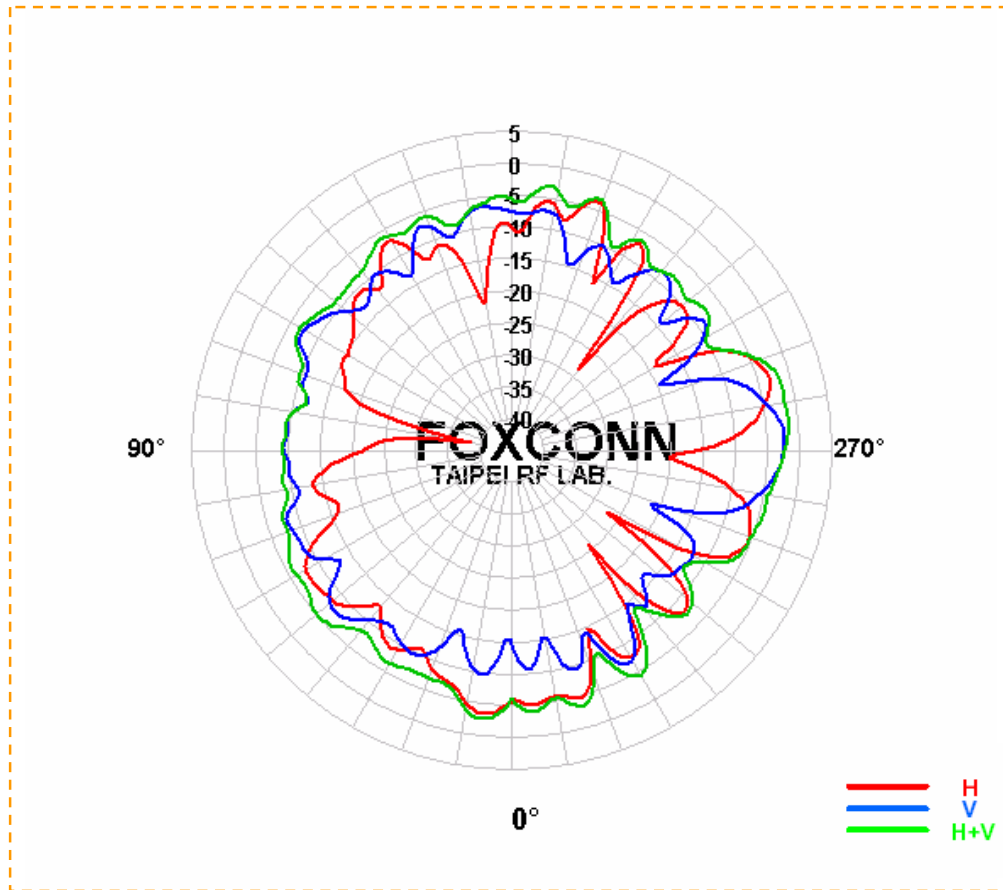
| | |
|-----------------------|-------------------|
| Center Frequency | 5597.5 MHz |
| Horizontal (dBi) peak | -1.09 |
| Vertical (dBi) peak | -1.30 |
| Horz+Vert (dBi) peak | -0.38 |

Main antenna: 5725 MHz



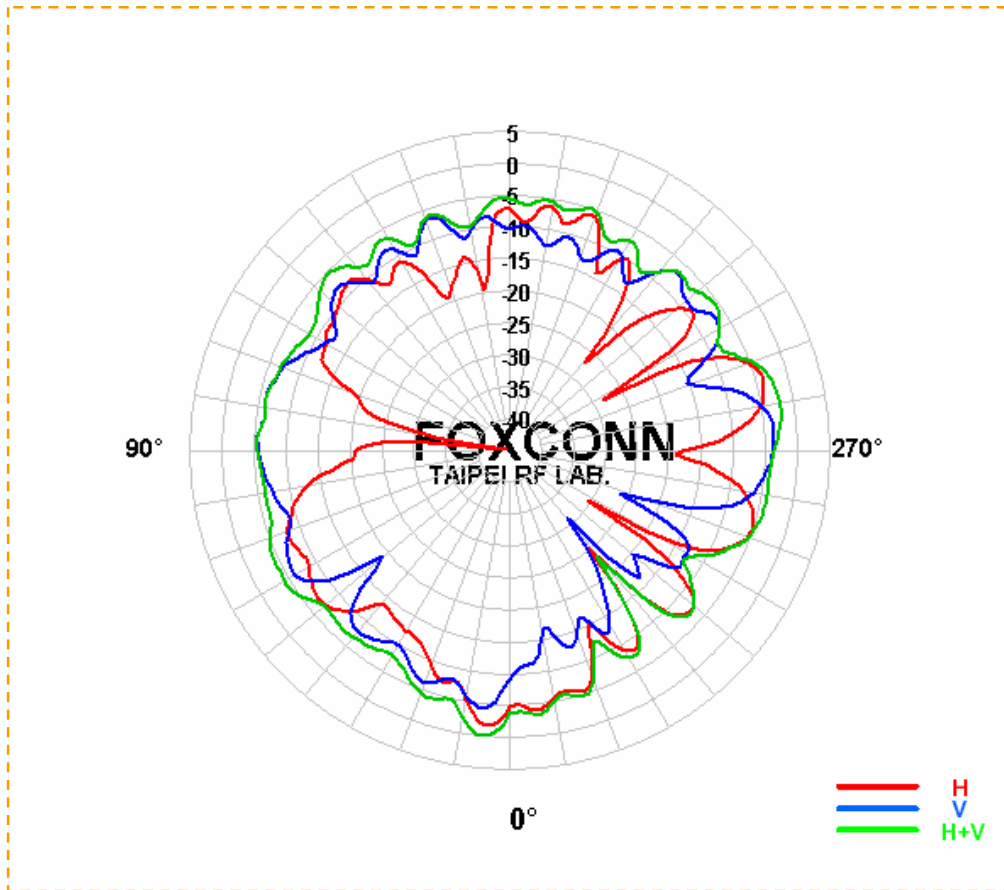
| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) peak | -2.68 |
| Vertical (dBi) peak | -4.04 |
| Horz+Vert (dBi) peak | -2.23 |

Auxiliary antenna: 5470 MHz



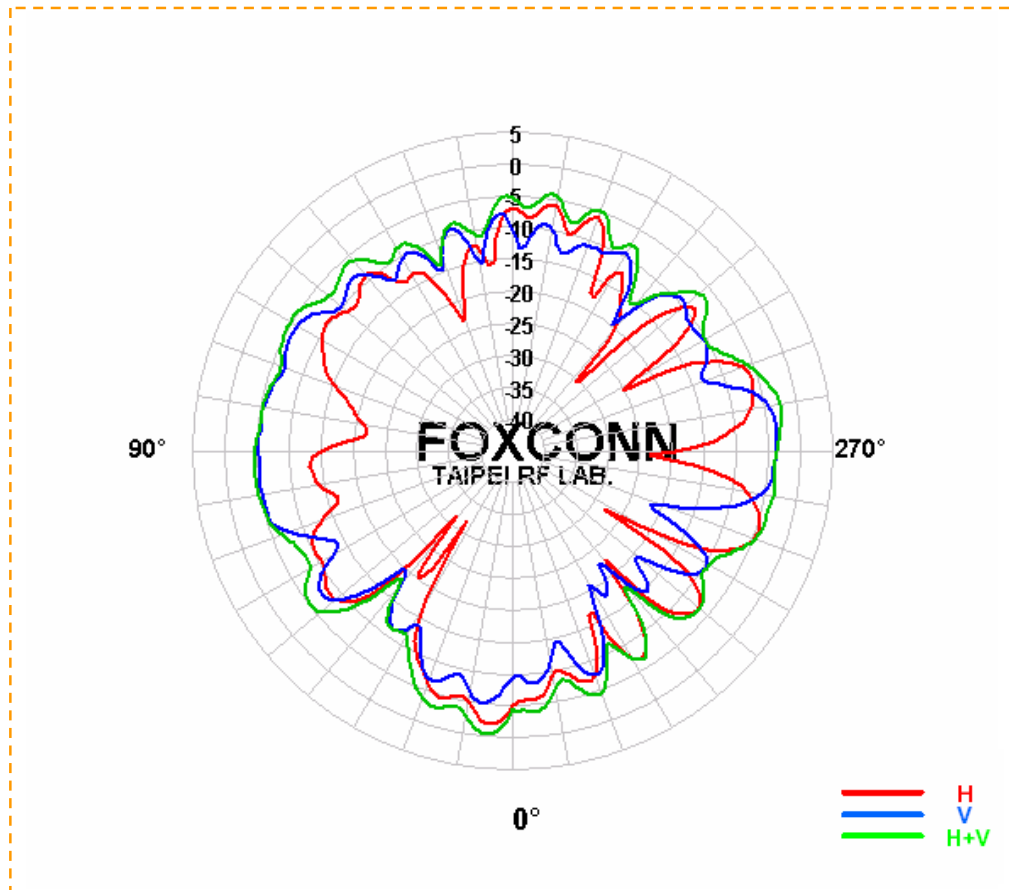
| | |
|-----------------------|----------|
| Center Frequency | 5470 MHz |
| Horizontal (dBi) peak | -3.09 |
| Vertical (dBi) peak | -2.23 |
| Horz+Vert (dBi) peak | -1.37 |

Auxiliary antenna: 5597.5 MHz



| | |
|-----------------------|-------------------|
| Center Frequency | 5597.5 MHz |
| Horizontal (dBi) peak | -1.34 |
| Vertical (dBi) peak | -3.45 |
| Horz+Vert (dBi) peak | -0.04 |

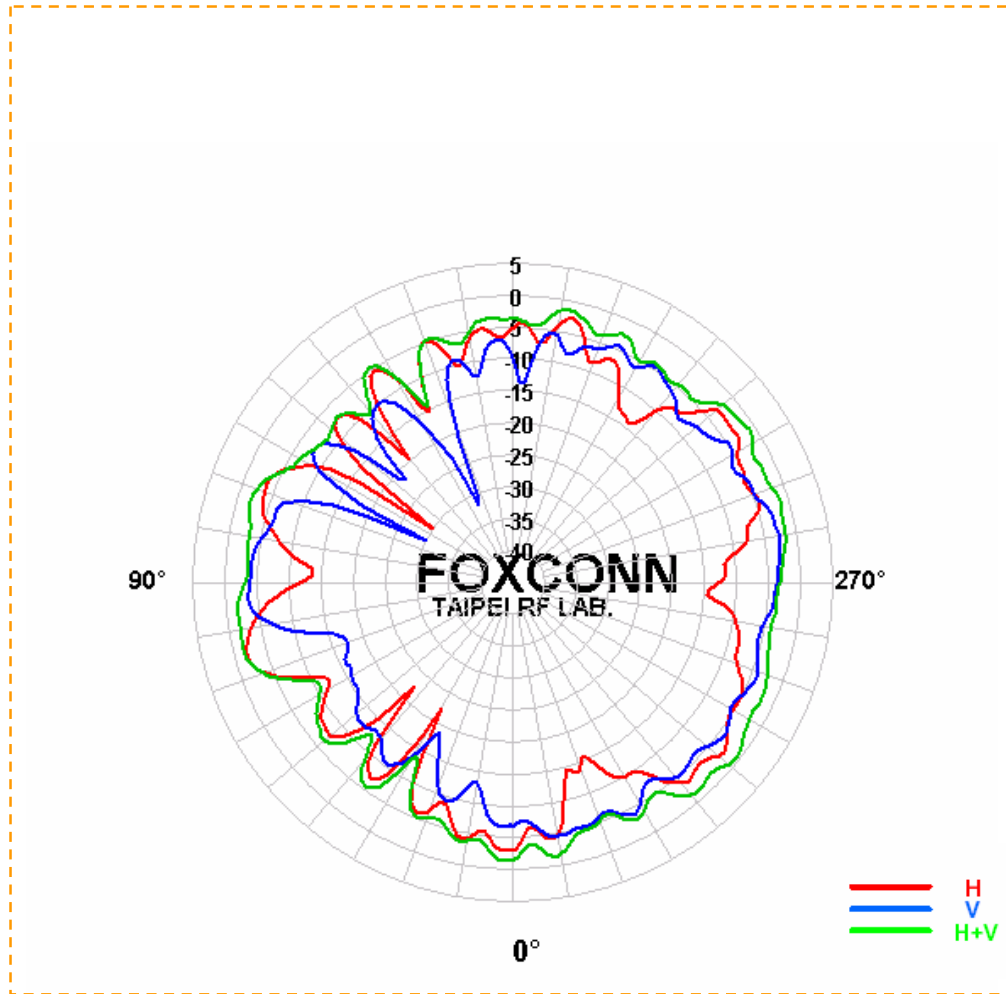
Auxiliary antenna: 5725 MHz



| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) peak | -1.89 |
| Vertical (dBi) peak | -3.54 |
| Horz+Vert (dBi) peak | -0.37 |

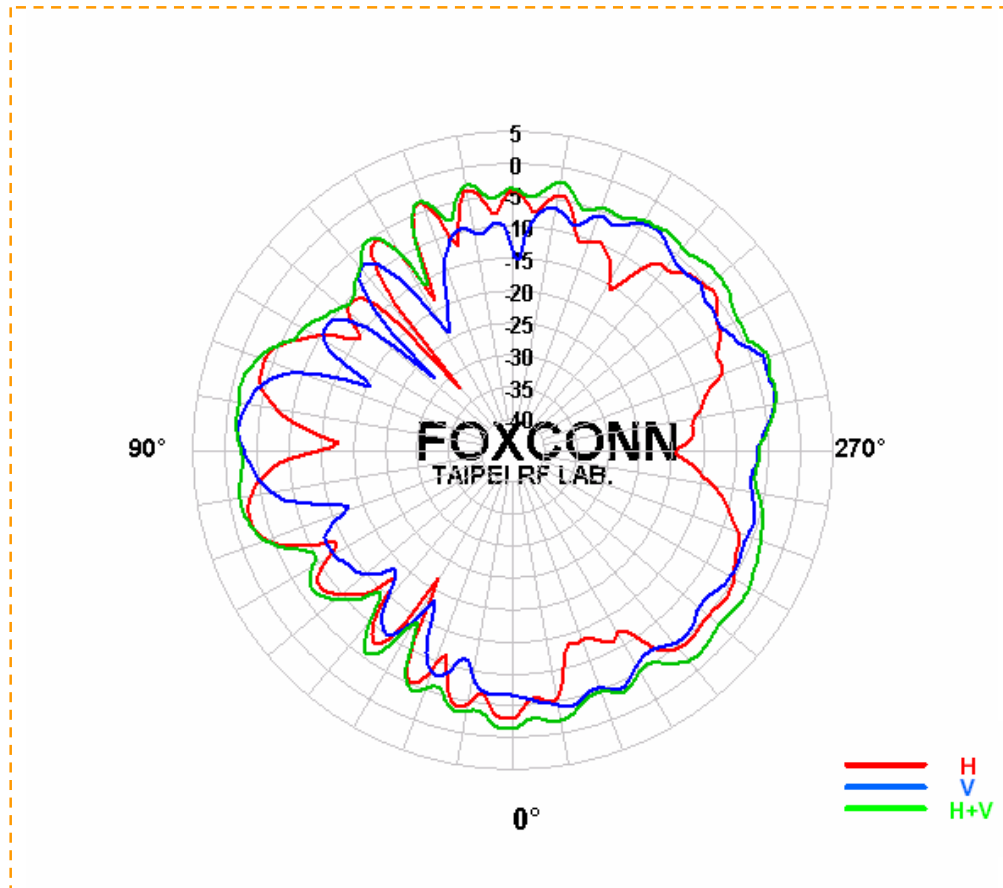
5725-5850 MHz radiation characteristic

Main antenna: 5725 MHz



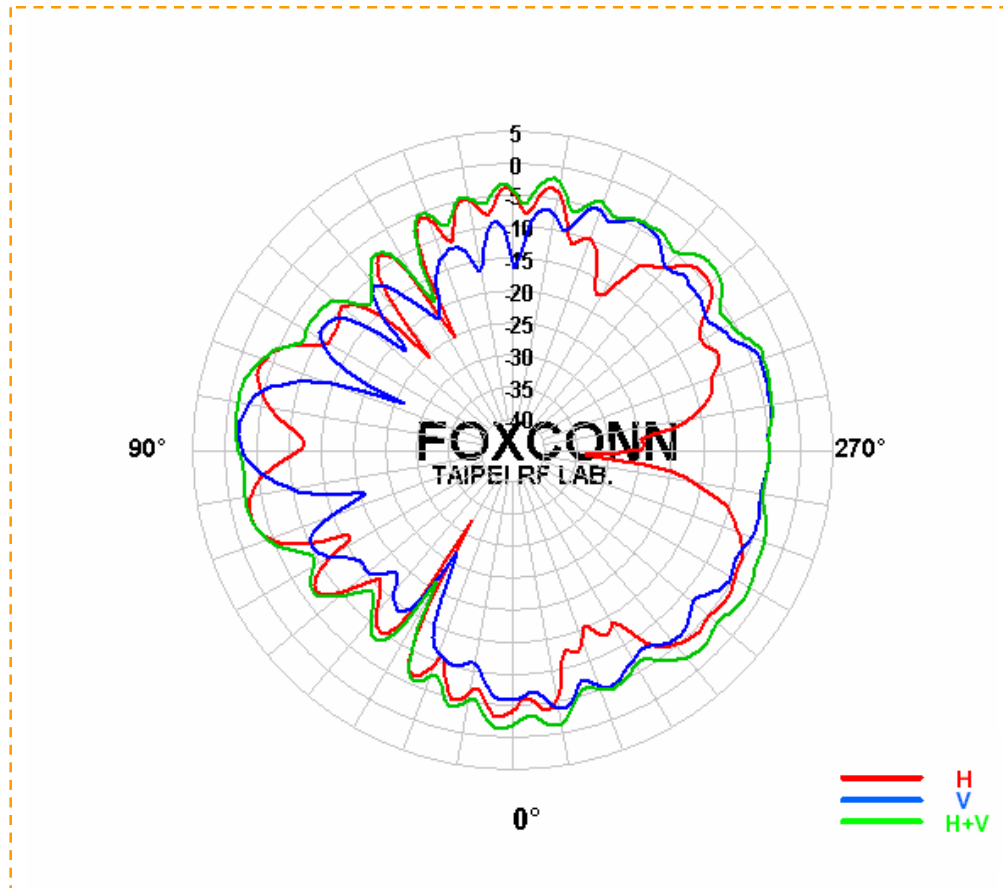
| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) peak | -1.89 |
| Vertical (dBi) peak | -2.64 |
| Horz+Vert (dBi) peak | -0.55 |

Main antenna: 5787.5 MHz



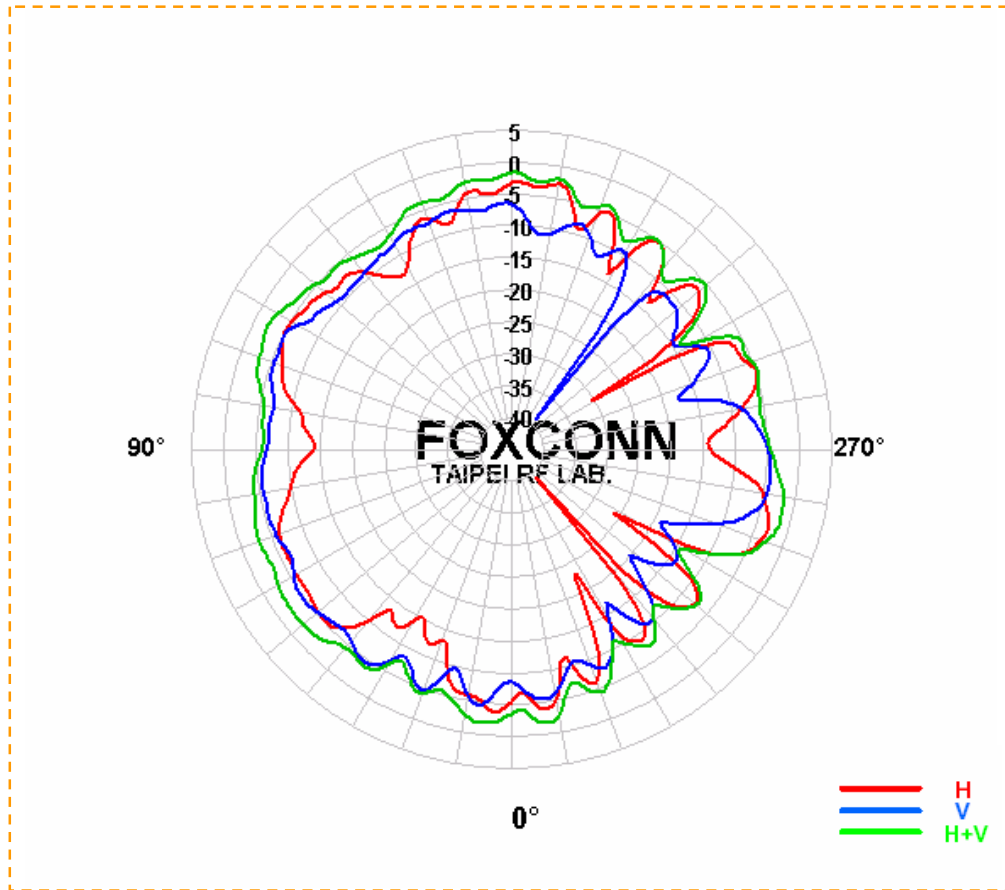
| | |
|-----------------------|-------------------|
| Center Frequency | 5787.5 MHz |
| Horizontal (dBi) peak | -2.50 |
| Vertical (dBi) peak | -1.92 |
| Horz+Vert (dBi) peak | -1.32 |

Main antenna: 5850 MHz



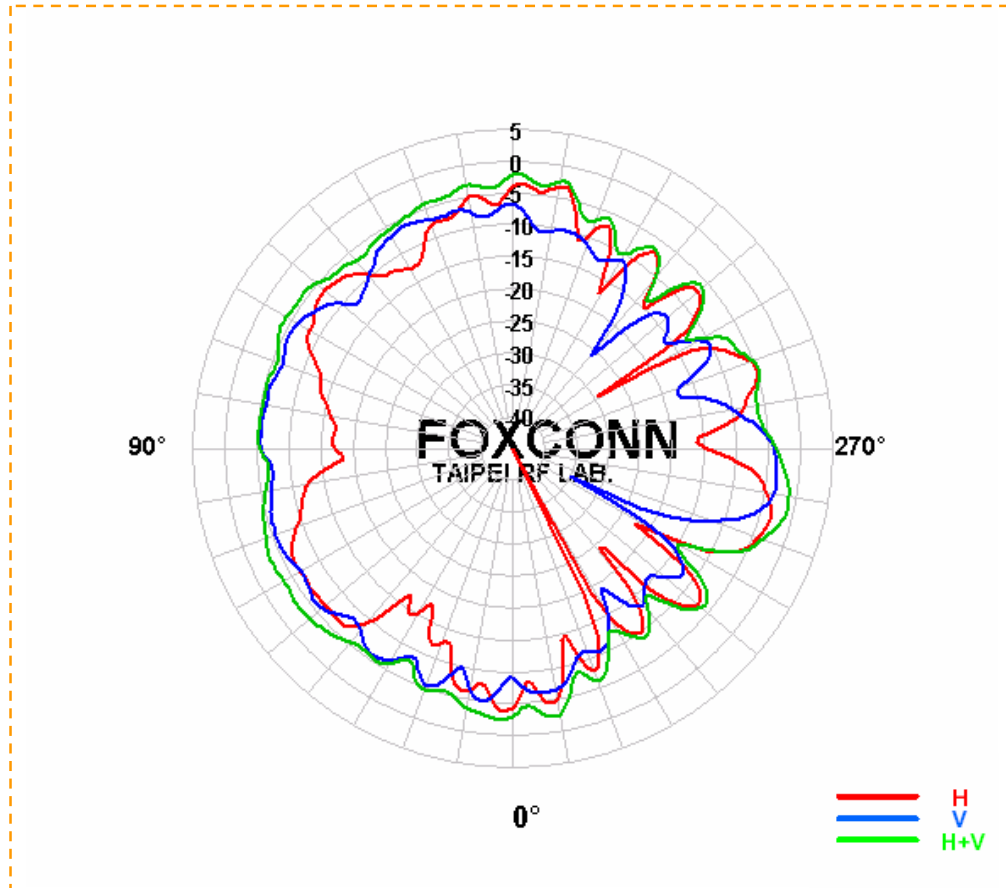
| | |
|-----------------------|-----------------|
| Center Frequency | 5850 MHz |
| Horizontal (dBi) peak | -2.70 |
| Vertical (dBi) peak | -2.08 |
| Horz+Vert (dBi) peak | -1.35 |

Auxiliary antenna: 5725 MHz



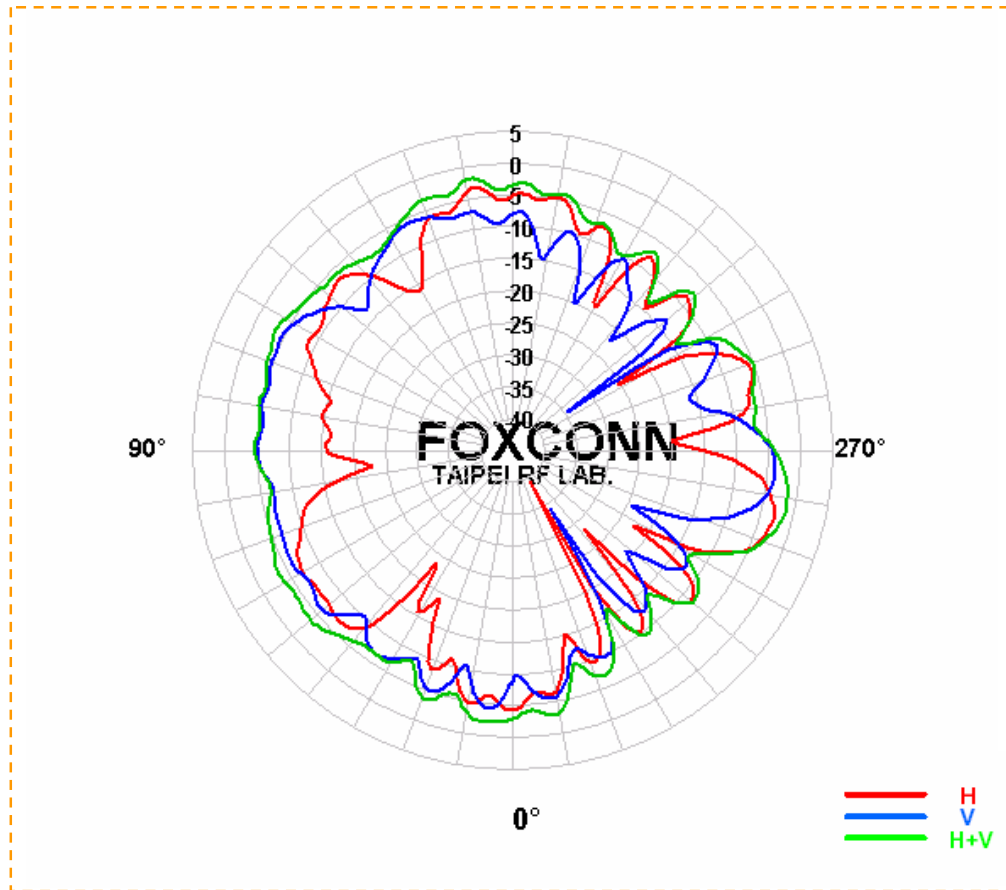
| | |
|-----------------------|----------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) peak | -2.71 |
| Vertical (dBi) peak | -4.27 |
| Horz+Vert (dBi) peak | -1.45 |

Auxiliary antenna: 5787.5 MHz



| | |
|-----------------------|-------------------|
| Center Frequency | 5787.5 MHz |
| Horizontal (dBi) peak | -3.15 |
| Vertical (dBi) peak | -3.28 |
| Horz+Vert (dBi) peak | -0.95 |

Auxiliary antenna: 5850 MHz



| | |
|-----------------------|-----------------|
| Center Frequency | 5850 MHz |
| Horizontal (dBi) peak | -2.74 |
| Vertical (dBi) peak | -3.76 |
| Horz+Vert (dBi) peak | -1.14 |