

Regulatory WLAN Antenna Information 2.45/5GHz Multiple Band Antennas with Cable & Connector For IEEE802.11b/g/a, UNII

(English Language Required for Intel Regulatory Review / Approval)

| | |
|--------------------|--|
| Platform | |
| Platform Owner | HP |
| Brand Name | HP |
| Model Name | LUKE |
| ODM | Inventec |
| Target Launch Date | (YYYY/ MM/ DD) |
| | |
| Antenna | |
| Brand Name | Yageo |
| Part Number | ■ Tx1 Antenna: 6036B0063701 |
| | ■ Tx2 (or Rx2) Antenna: 6036B0063601 |
| | |
| | |
| Module | |
| With WLAN Module | <input type="checkbox"/> WM3B2200BG |
| (Check Box) | <input type="checkbox"/> WM3B2915ABG |
| | <input type="checkbox"/> WM3945ABG |
| | <input type="checkbox"/> 4965AGN |
| | <input type="checkbox"/> 4965AG_ |
| | <input type="checkbox"/> 533ANX Family |
| | <input type="checkbox"/> 512ANX Family |
| | <input type="checkbox"/> 533AN Family |
| | <input type="checkbox"/> 512AN Family |
| | ■ WLAN Condor Peak b/g/n (Intel) |
| | ■ Broadcom Demi2 |
| | ■ Atheros Medoc |
| | |

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 only | 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 | Part number of Antenna Assembly / cable impedance, length & diameter. | Required | Desired | Desired | Desired | Desired |
| 1E | Tx1, Tx2 & Tx3 antenna (Peak Gain W/ cable loss) * | Required | Required | Required | Required | Required |
| | 1E OR 1F, 1G, 1H | | | | | |
| 1F | Tx1, Tx2 & Tx3 antenna (Peak Gain only) * | Required | Required | Required | Required | Required |
| 1G | VSWR of cable including connector | Required | Required | Required | Required | Required |
| 1H | Tx1, Tx2 & Tx3 antenna (Cable loss W/ connector) * | Required | Required | Required | Required | Required |
| 2 | Dimensioned Photographs <u>and</u> Drawings of Tx1, Tx2, and Tx3 (or Rx3) antennas | Required | Required | Required | Required | Required |
| 3 | Radiation patterns of antennas loaded in the host platform. | Required | Desired | Required | N/A | Required |
| 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). 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 |

NOTE:

(*) if 3rd antenna is Rx only (e.g. receive only for 4965AGN) then peak gain and cable loss not required

Antenna Information

Section 1. Antenna Assembly Specifications

Antenna Assembly Summary:

Laptop Mode

| 1A Antenna Part Number | 1B Manufacturer | 1C Antenna Type | 1D Cable Assembly Part Number and Information | 1E Peak Gain W/ Cable Loss (dBi) | 1F Peak Gain w/o Cable Loss (dBi) | 1G VSWR | 1H Cable Loss (dBi) |
|--|----------------------|--------------------|--|--|---|--------------------------|---------------------------------|
| Inventec P/N: 6036B0063701 Yageo P/N: CAN43139WLIN00081 Tx1 antenna | YAGEO Corporation | PIFA | 50 ohm Coaxial length: 58 cm diameter: 1.37 mm Connector: Technova or compatible. HL or compatible. | 2400-2500MHz -1.90 dBi (peak) | 2400-2500MHz -0.45 dBi (peak) | 2400-2500MHz 3.00 max | 2400-2500MHz 1.45 dBi (peak) |
| | | | | 5150-5350MHz -1.41 dBi (peak) | 5150-5350MHz 0.86 dBi (peak) | 5150-5350MHz 3.00 max | 5150-5350MHz 2.27 dBi (peak) |
| | | | | 5470-5725MHz -0.75 dBi (peak) | 5470-5725MHz 1.63 dBi (peak) | 5470-5725MHz 3.00 max | 5470-5725MHz 2.38 dBi (peak) |
| | | | | 5725-5850MHz -0.76 dBi (peak) | 5725-5850MHz 1.67 dBi (peak) | 5725-5850MHz 3.00 max | 5725-5850MHz 2.43 dBi (peak) |
| Inventec P/N: 6036B0063601 Yageo P/N: CAN43139WLIN00082 Tx2 antenna | YAGEO Corporation | PIFA | 50 ohm Coaxial length: 68.5 cm diameter: 1.37 mm Connector: Technova or compatible. HL or compatible. | 2400-2500MHz 1.58 dBi (peak) | 2400-2500MHz 3.29 dBi (peak) | 2400-2500MHz 3.00 max | 2400-2500MHz 1.71 dBi (peak) |
| | | | | 5150-5350MHz -0.31 dBi (peak) | 5150-5350MHz 2.38 dBi (peak) | 5150-5350MHz 3.00 max | 5150-5350MHz 2.69 dBi (peak) |
| | | | | 5470-5725MHz -0.81 dBi (peak) | 5470-5725MHz 2.00 dBi (peak) | 5470-5725MHz 3.00 max | 5470-5725MHz 2.81 dBi (peak) |
| | | | | 5725-5850MHz -0.81 dBi (peak) | 5725-5850MHz 2.06 dBi (peak) | 5725-5850MHz 3.00 max | 5725-5850MHz 2.87 dBi (peak) |

Table Mode

| 1A Antenna Part Number | 1B Manufacturer | 1C Antenna Type | 1D Cable Assembly Part Number and Information | 1E Peak Gain W/ Cable Loss (dBi) | 1F Peak Gain w/o Cable Loss (dBi) | 1G VSWR | 1H Cable Loss (dBi) |
|--|----------------------|--------------------|--|--|---|--------------------------|---------------------------------|
| Inventec P/N: 6036B0063701 Yageo P/N: CAN43139WLIN00081 Tx1 antenna | YAGEO Corporation | PIFA | 50 ohm Coaxial length: 58 cm diameter: 1.37 mm Connector: Technova or compatible. HL or compatible. | 2400-2500MHz -0.91 dBi (peak) | 2400-2500MHz 0.54 dBi (peak) | 2400-2500MHz 3.00 max | 2400-2500MHz 1.45 dBi (peak) |
| | | | | 5150-5350MHz -1.19 dBi (peak) | 5150-5350MHz 1.08 dBi (peak) | 5150-5350MHz 3.00 max | 5150-5350MHz 2.27 dBi (peak) |
| | | | | 5470-5725MHz -0.44 dBi (peak) | 5470-5725MHz 1.94 dBi (peak) | 5470-5725MHz 3.00 max | 5470-5725MHz 2.38 dBi (peak) |
| | | | | 5725-5850MHz -1.23 dBi (peak) | 5725-5850MHz 1.20 dBi (peak) | 5725-5850MHz 3.00 max | 5725-5850MHz 2.43 dBi (peak) |
| Inventec P/N: 6036B0063601 Yageo P/N: CAN43139WLIN00082 Tx2 antenna | YAGEO Corporation | PIFA | 50 ohm Coaxial length: 68.5 cm diameter: 1.37 mm Connector: Technova or compatible. HL or compatible. | 2400-2500MHz 0.29 dBi (peak) | 2400-2500MHz 2.00 dBi (peak) | 2400-2500MHz 3.00 max | 2400-2500MHz 1.71 dBi (peak) |
| | | | | 5150-5350MHz -0.83 dBi (peak) | 5150-5350MHz 1.86 dBi (peak) | 5150-5350MHz 3.00 max | 5150-5350MHz 2.69 dBi (peak) |
| | | | | 5470-5725MHz -1.34 dBi (peak) | 5470-5725MHz 1.47 dBi (peak) | 5470-5725MHz 3.00 max | 5470-5725MHz 2.81 dBi (peak) |
| | | | | 5725-5850MHz -1.27 dBi (peak) | 5725-5850MHz 1.60 dBi (peak) | 5725-5850MHz 3.00 max | 5725-5850MHz 2.87 dBi (peak) |

NOTE:

(* If Rx2/Rx3 only (2nd or 3rd antenna receives only, e.g. for 512 family & 4965AGN) then the information marked with * is not required

Antenna Peak Gain Table:**Laptop Mode**

| Frequency (MHz) | Tx1 Antenna | | Tx2 Antenna | |
|-----------------|-------------|----------|-------------|----------|
| | Horizontal | Vertical | Horizontal | Vertical |
| | (dBi) | (dBi) | (dBi) | (dBi) |
| 2400 | -2.58 | -2.30 | -1.46 | 1.14 |
| 2450 | -2.74 | -2.03 | -0.82 | 1.58 |
| 2500 | -2.97 | -1.90 | -1.83 | 0.46 |
| 5150 | -2.33 | -1.83 | -2.93 | -0.31 |
| 5250 | -1.47 | -1.60 | -2.06 | -1.92 |
| 5350 | -1.41 | -1.74 | -2.97 | -0.62 |
| 5470 | -1.58 | -2.19 | -2.29 | -1.57 |
| 5600 | -0.75 | -4.27 | -1.43 | -2.50 |
| 5725 | -2.20 | -3.48 | -0.81 | -1.90 |
| 5785 | -1.96 | -3.90 | -0.97 | -2.65 |
| 5850 | -0.76 | -4.49 | -1.93 | -3.63 |

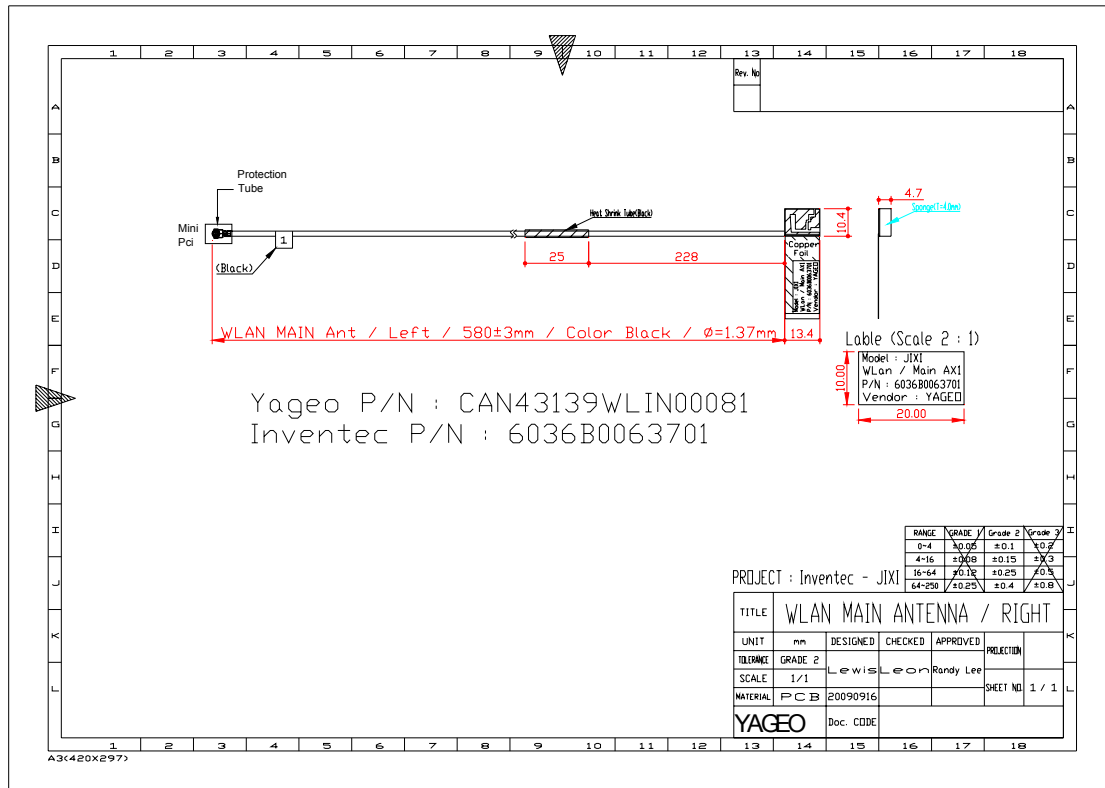
Table Mode

| Frequency (MHz) | Tx1 Antenna | | Tx2 Antenna | |
|-----------------|-------------|----------|-------------|----------|
| | Horizontal | Vertical | Horizontal | Vertical |
| | (dBi) | (dBi) | (dBi) | (dBi) |
| 2400 | -3.32 | -0.91 | -3.17 | 0.29 |
| 2450 | -3.73 | -2.62 | -3.24 | -0.45 |
| 2500 | -4.07 | -3.88 | -4.22 | -2.02 |
| 5150 | -1.58 | -2.70 | -4.82 | -1.94 |
| 5250 | -1.19 | -3.20 | -3.80 | -0.83 |
| 5350 | -2.38 | -4.01 | -3.33 | -1.92 |
| 5470 | -0.44 | -2.94 | -3.21 | -2.77 |
| 5600 | -1.40 | -2.11 | -2.69 | -1.88 |
| 5725 | -1.39 | -1.98 | -2.47 | -1.34 |
| 5785 | -1.23 | -1.74 | -2.57 | -1.27 |
| 5850 | -1.55 | -2.54 | -2.20 | -2.32 |

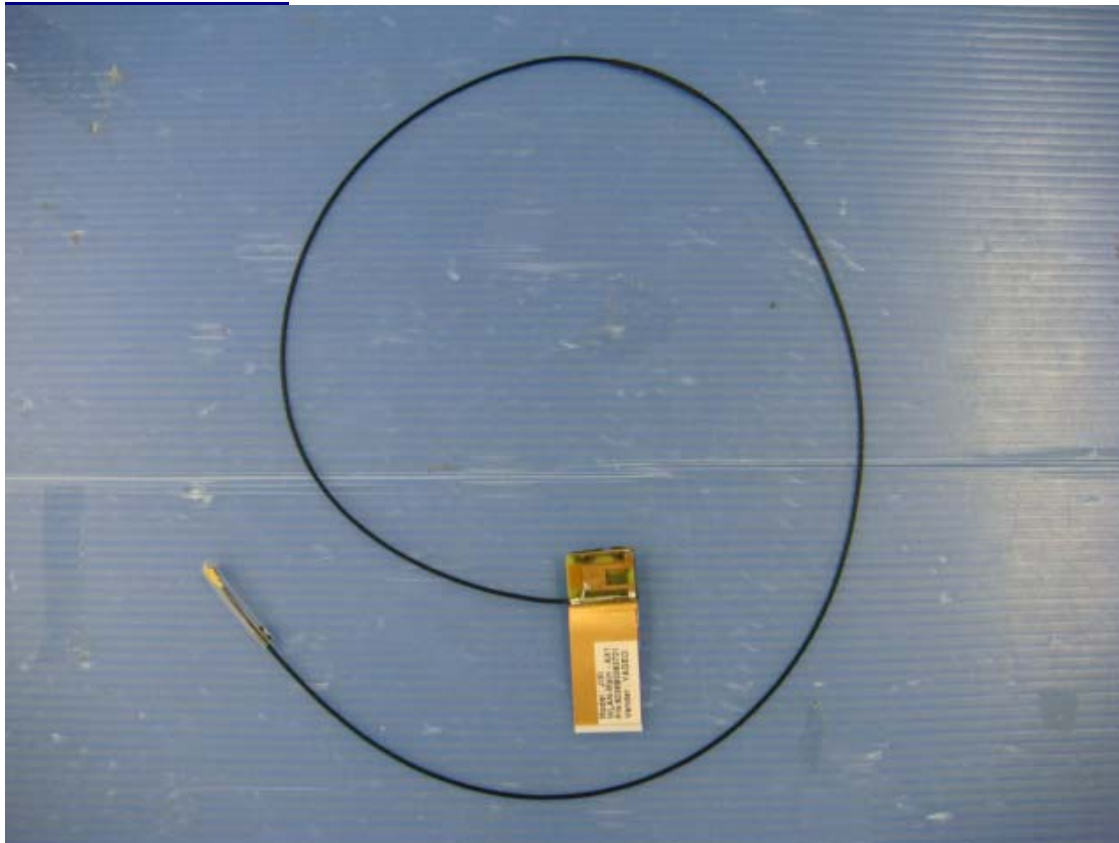
- Antenna Peak Gain required being test in system basis.
- 1E frame contend absolutely peak antenna gain include H/V
- If Rx2 only (2nd antenna receives only, e.g. for 512 family) then the information is not required for Rx2.

Section 2. Dimensioned Photos or Drawings of Antennas

Tx1 Antenna Dimensioned Drawing:



Tx1 Antenna Photo:



Include front view photo of all 2 antennas here.

Antenna Manufacturer: Yageo

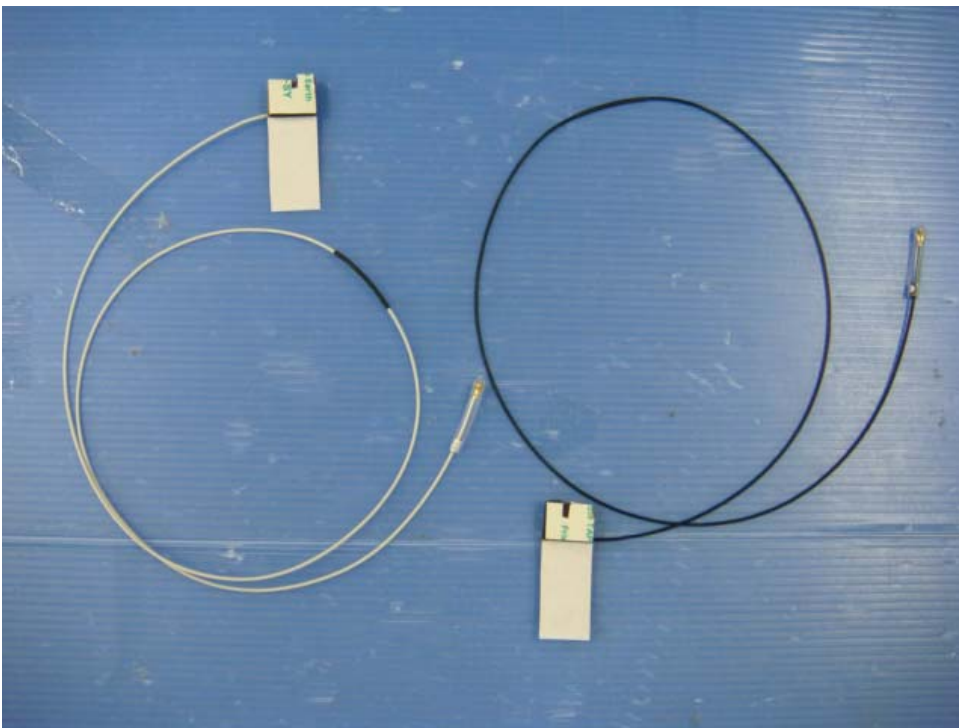
Antenna Part Number: 6036B0063701 (Tx1), 6036B0063601 (Tx2 or Rx2)



Include back view photo of all 2 antennas here.

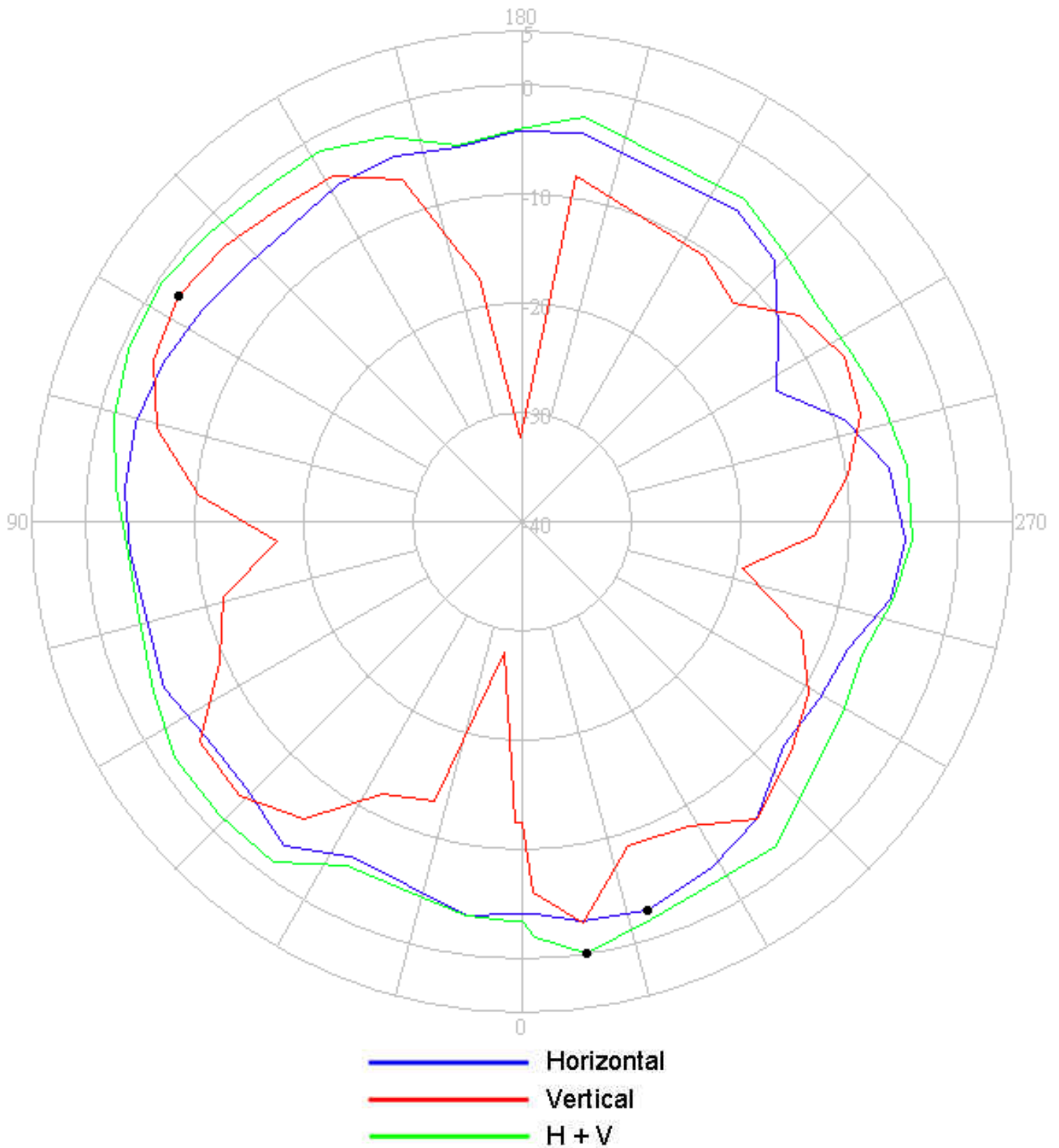
Antenna Manufacturer: Yageo

Antenna Part Number: 6036B0063701 (Main), 6036B0063601 (Aux)



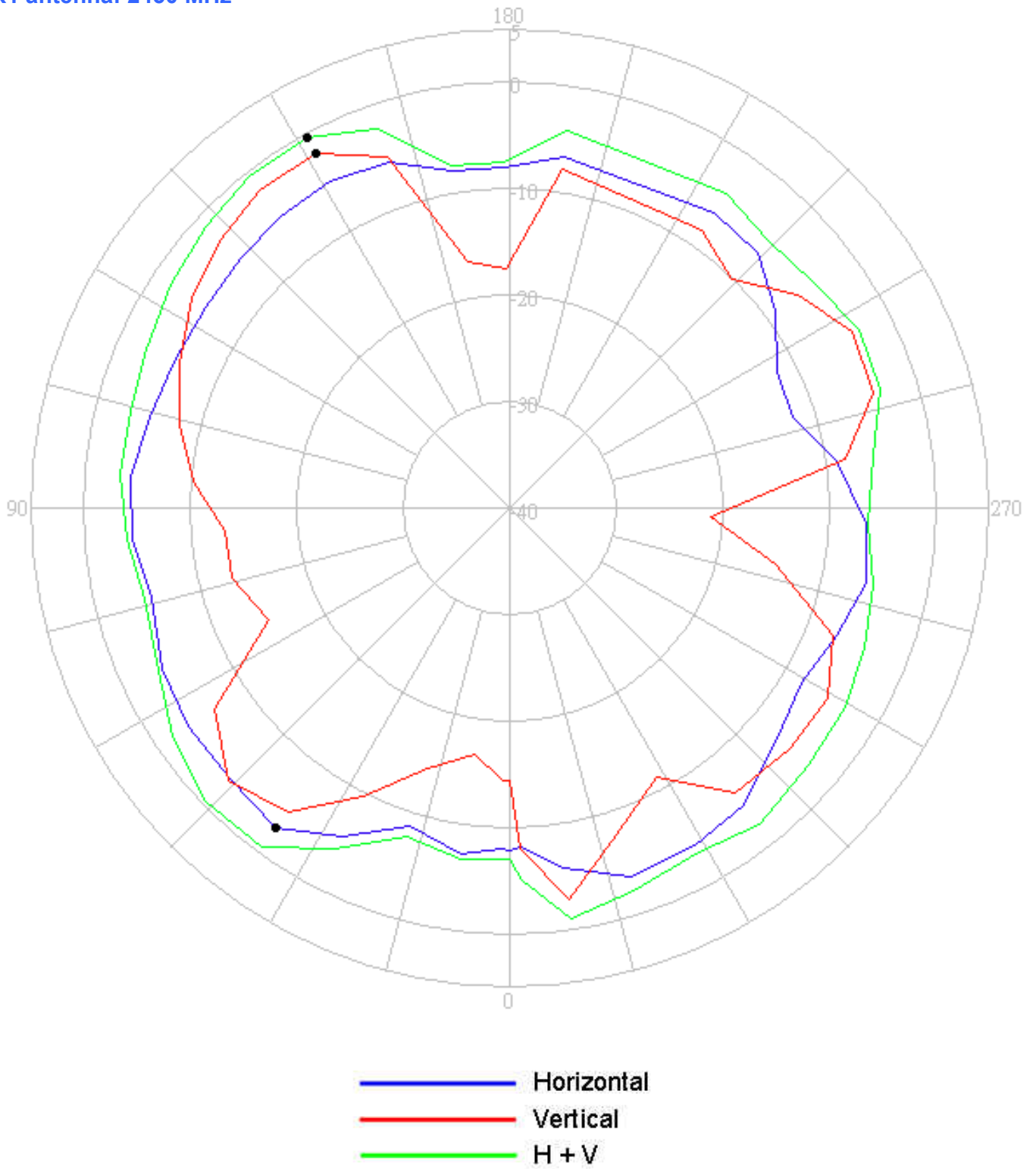
Section 3. Radiation characteristics of antennae Loaded in Host Platform

2400-2500MHz radiation characteristic (Laptop Mode) Tx1 antenna: 2400 MHz



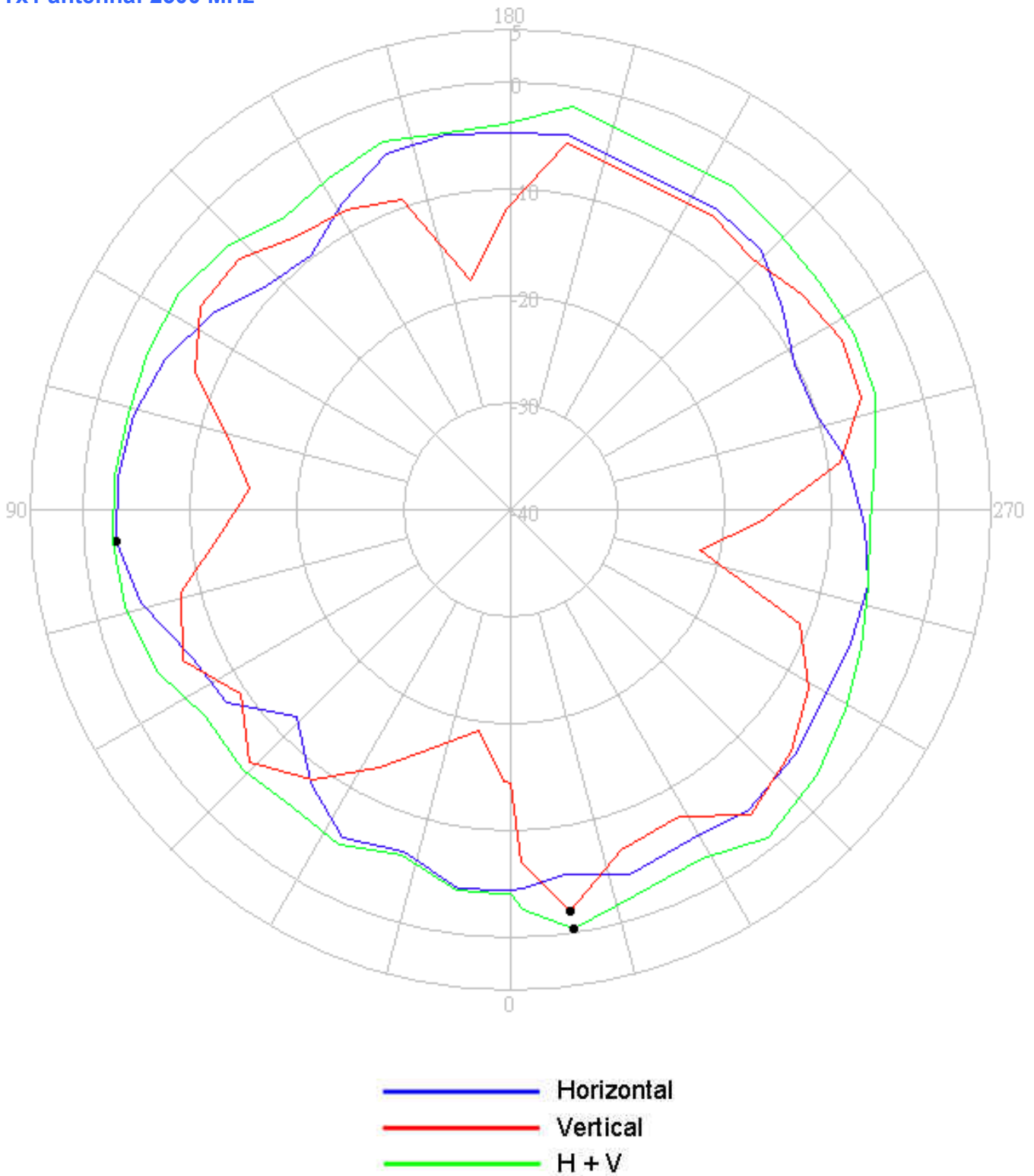
| | |
|-----------------------|-----------------|
| Center Frequency | 2400 MHz |
| Horizontal (dBi) Peak | -2.58 |
| Vertical (dBi) Peak | -2.30 |

Tx1 antenna: 2450 MHz



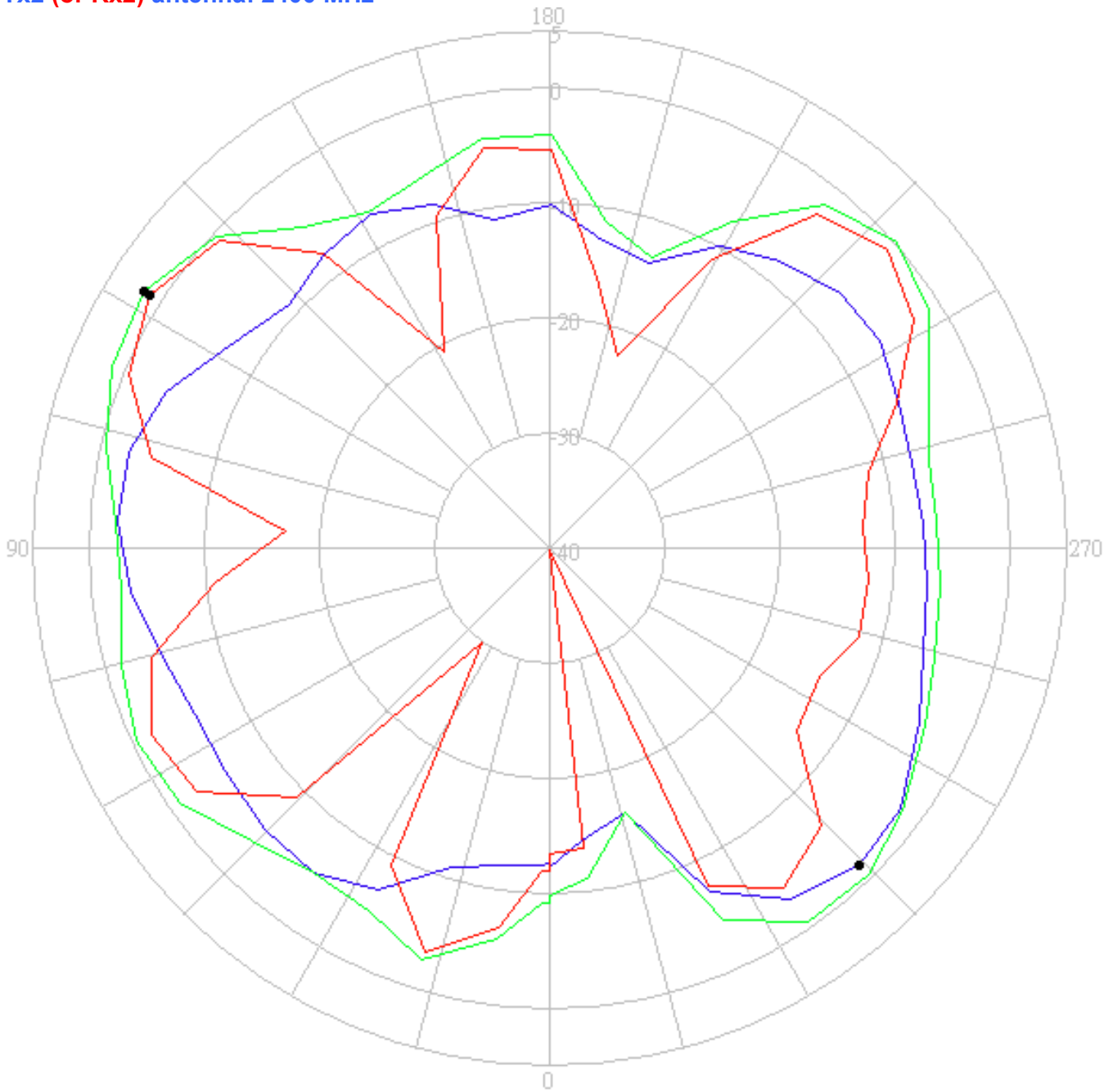
| | |
|-----------------------|-----------------|
| Center Frequency | 2450 MHz |
| Horizontal (dBi) Peak | -2.74 |
| Vertical (dBi) Peak | -2.03 |

Tx1 antenna: 2500 MHz



| | |
|-----------------------|-----------------|
| Center Frequency | 2500 MHz |
| Horizontal (dBi) Peak | -2.97 |
| Vertical (dBi) Peak | -1.90 |

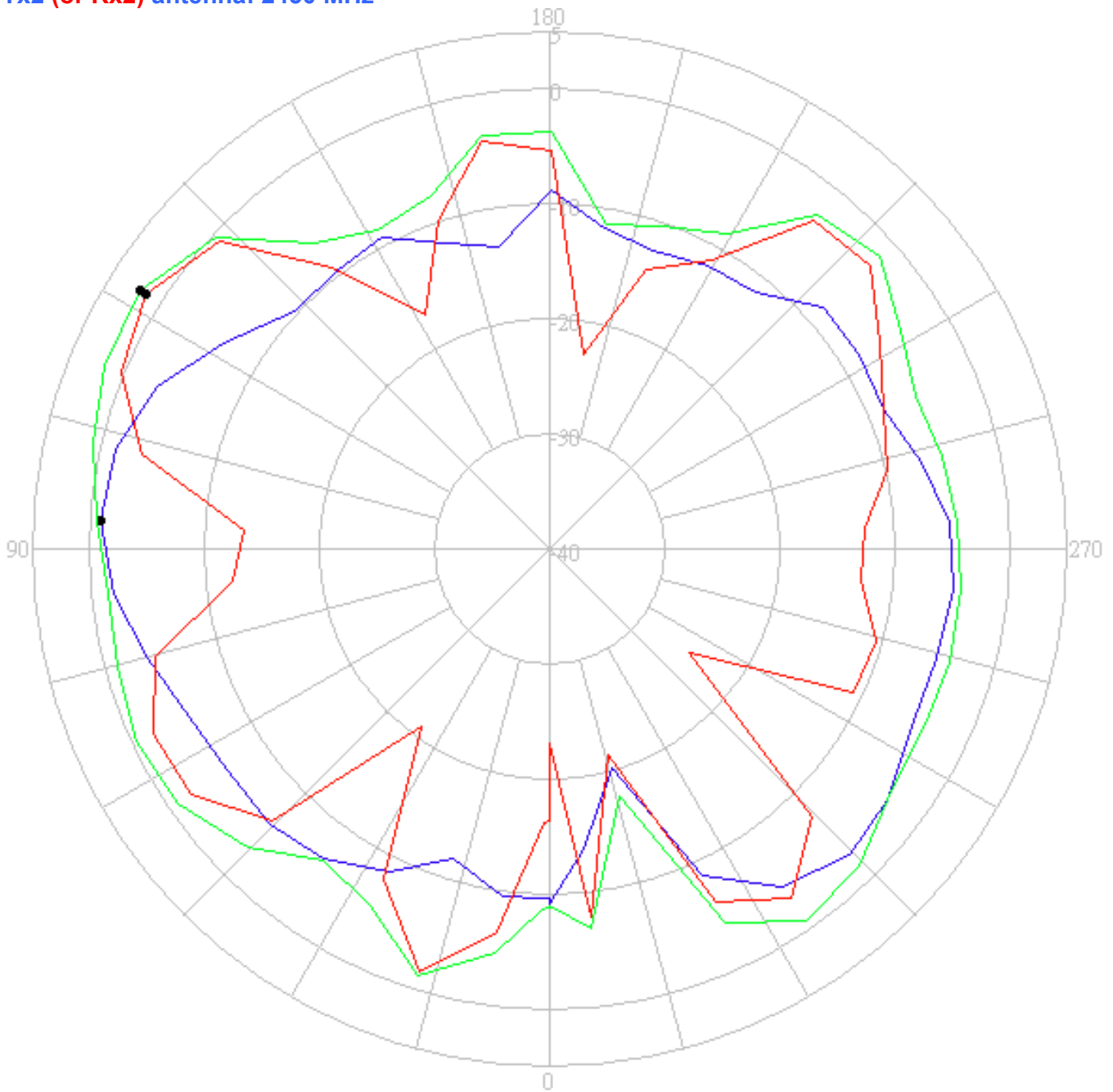
Tx2 (or Rx2) antenna: 2400 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 2400 MHz |
| Horizontal (dBi) Peak | -1.46 |
| Vertical (dBi) Peak | 1.14 |

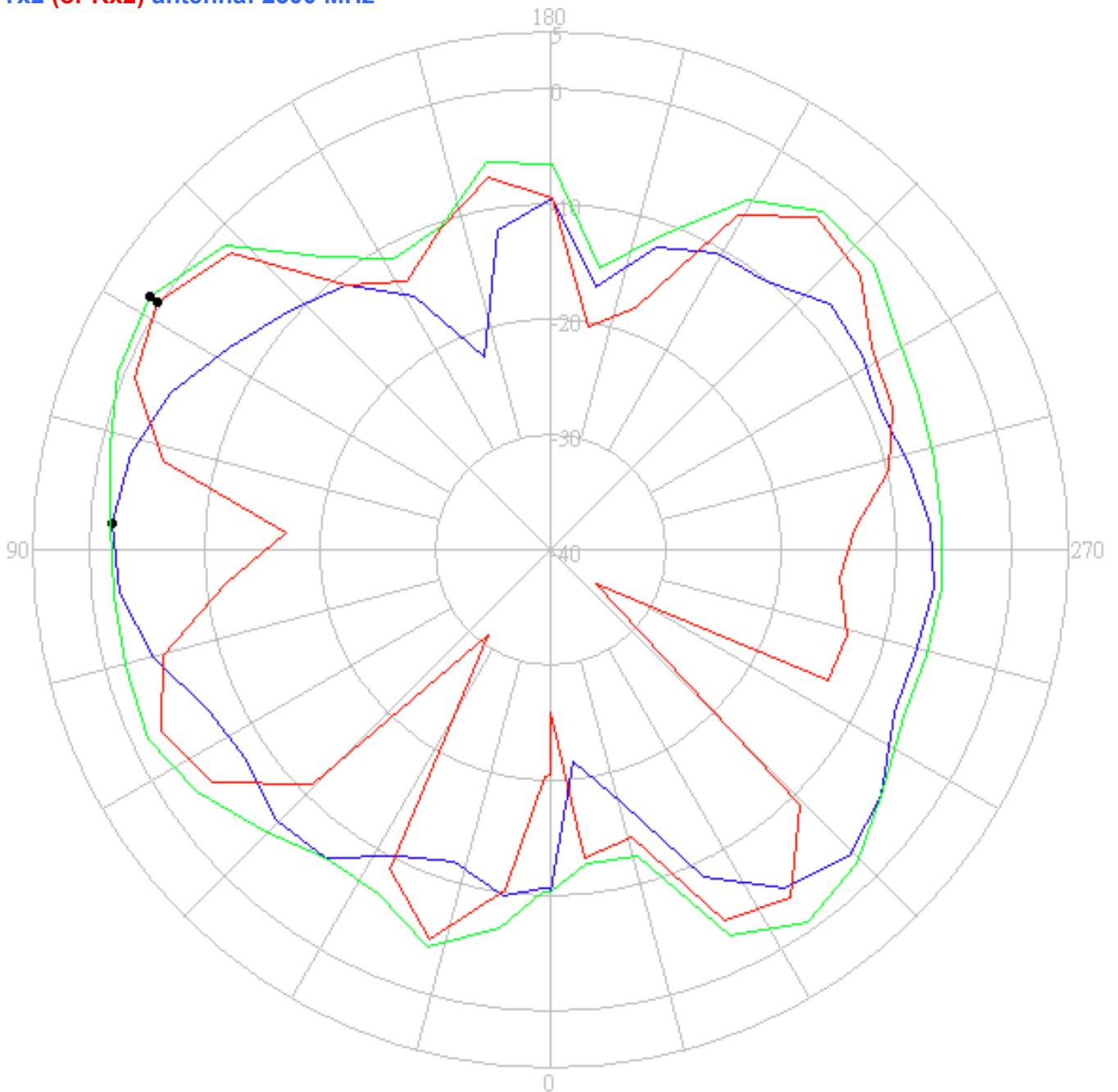
Tx2 (or Rx2) antenna: 2450 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 2450 MHz |
| Horizontal (dBi) Peak | -0.82 |
| Vertical (dBi) Peak | 1.58 |

Tx2 (or Rx2) antenna: 2500 MHz

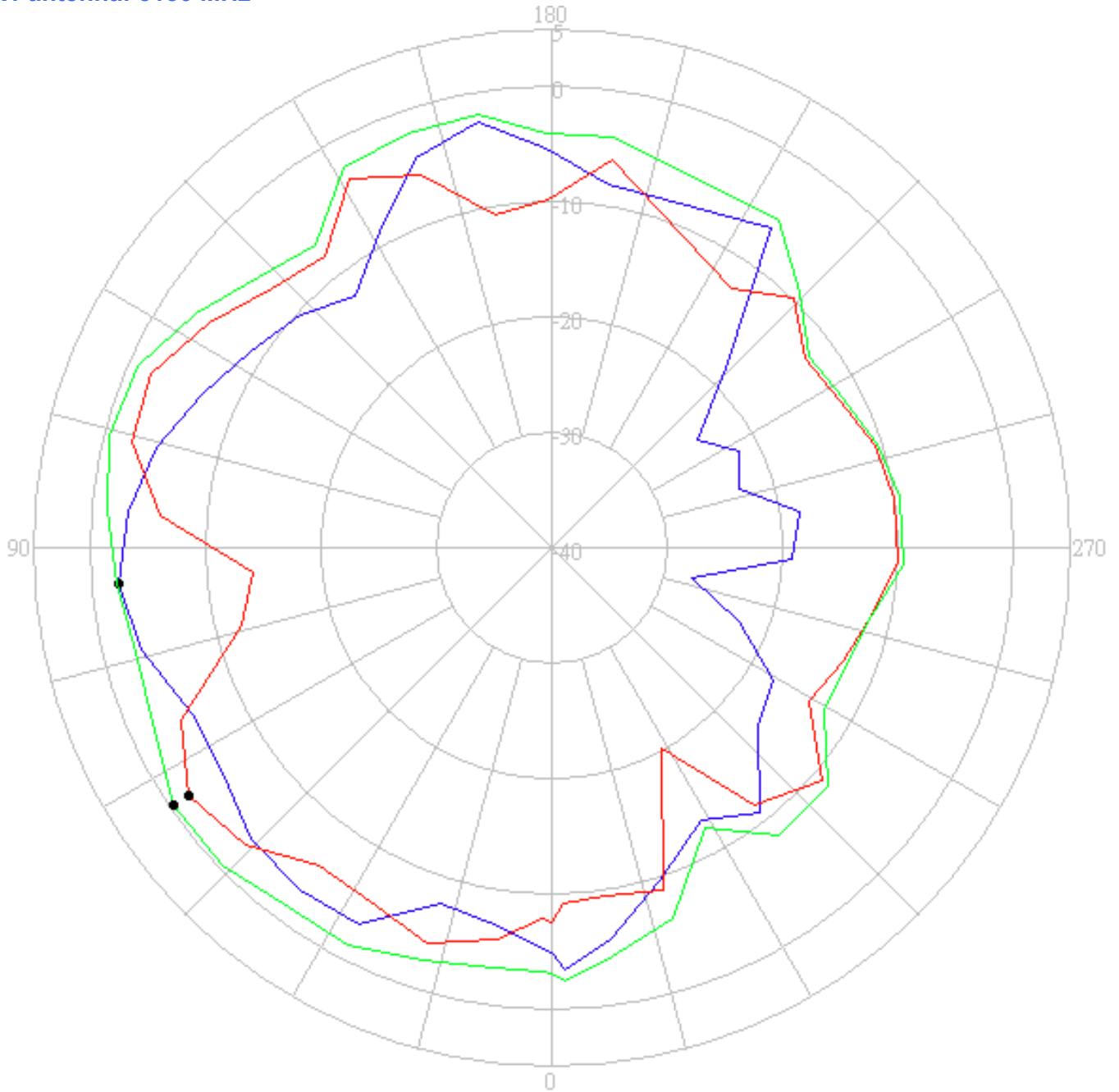


- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 2500 MHz |
| Horizontal (dBi) Peak | -1.83 |
| Vertical (dBi) Peak | 0.46 |

5150-5350 MHz radiation characteristic (Laptop Mode)

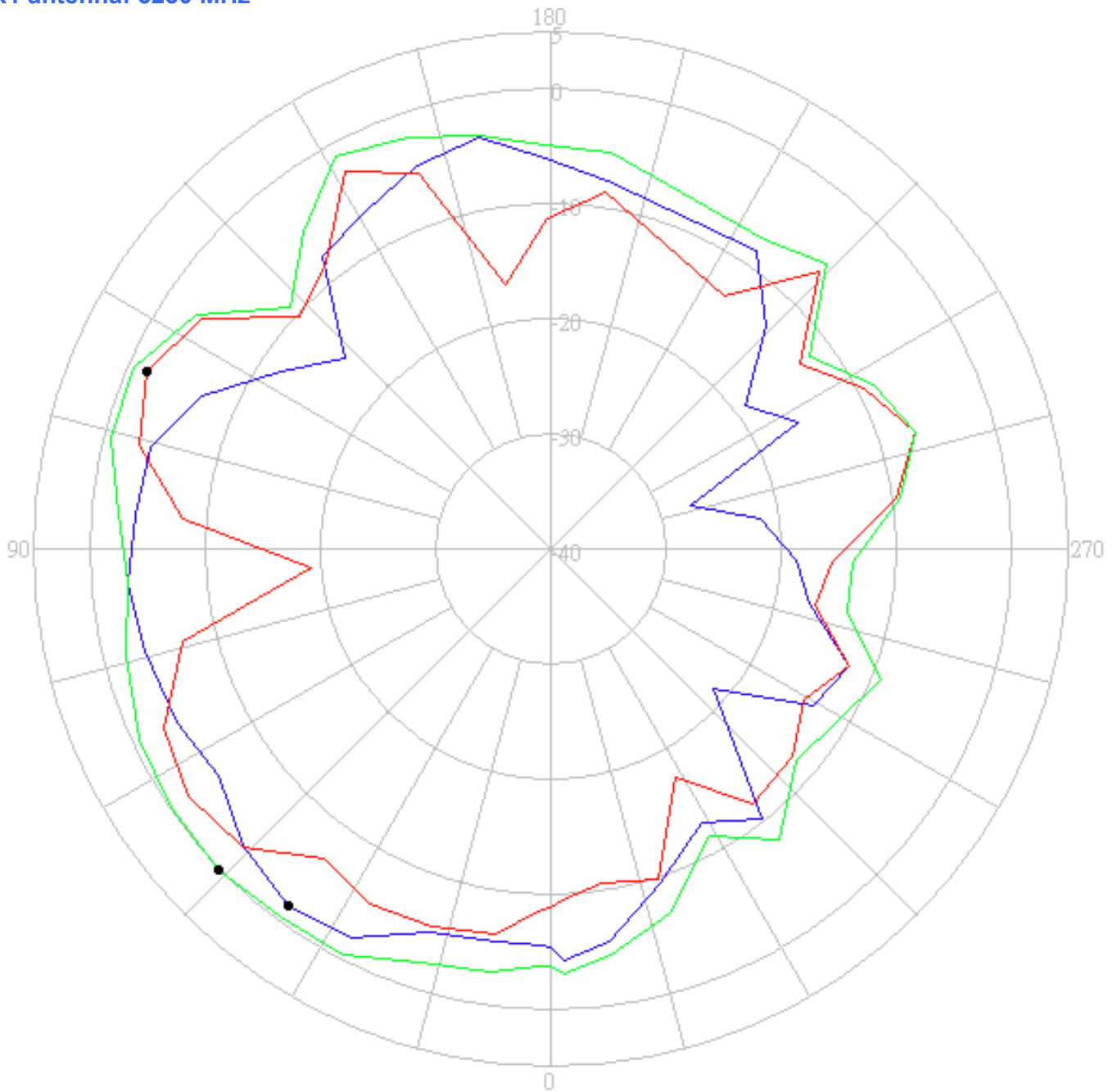
Tx1 antenna: 5150 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5150 MHz |
| Horizontal (dBi) Peak | -2.33 |
| Vertical (dBi) Peak | -1.83 |

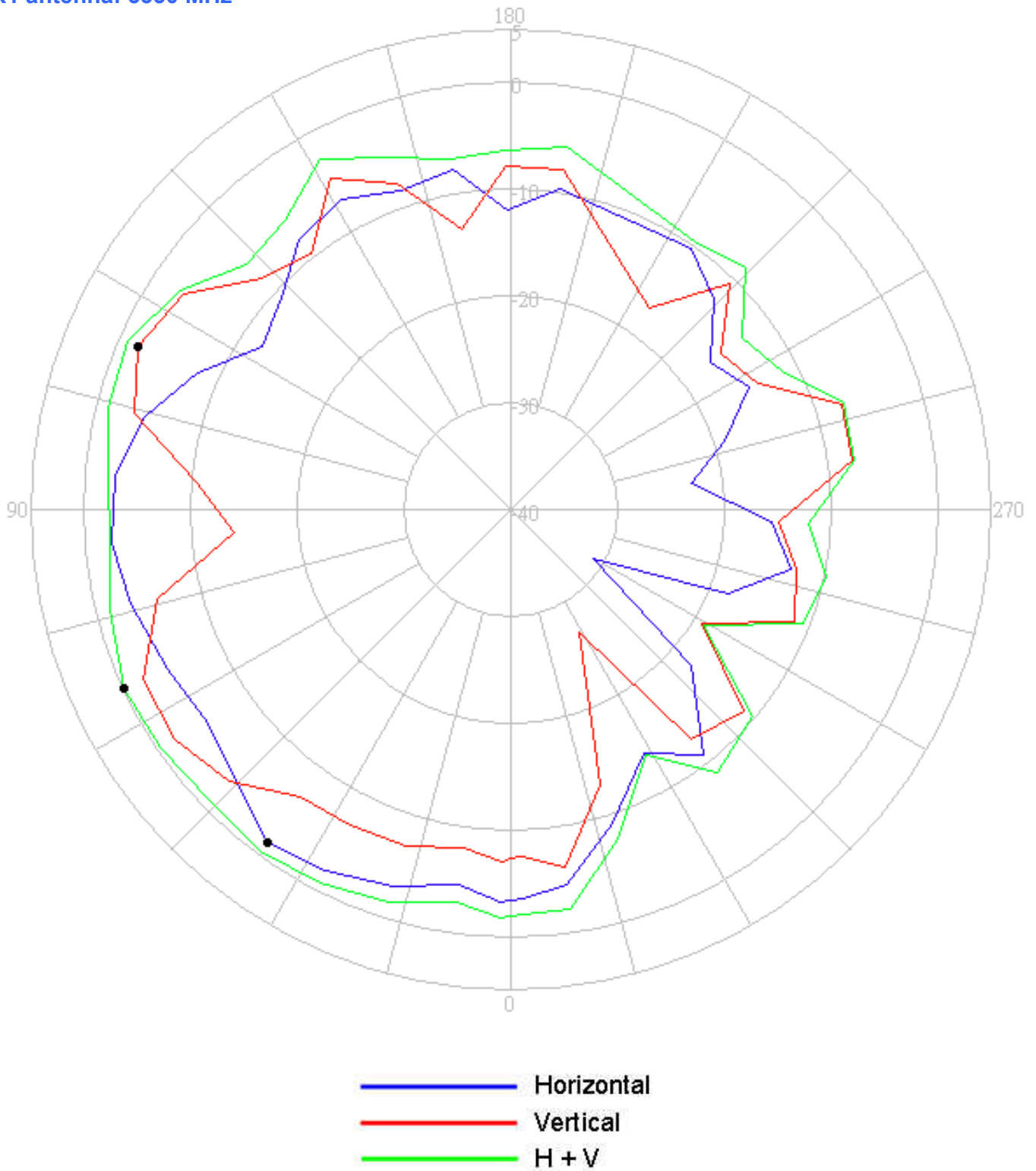
Tx1 antenna: 5250 MHz



- Horizontal
- Vertical
- H + V

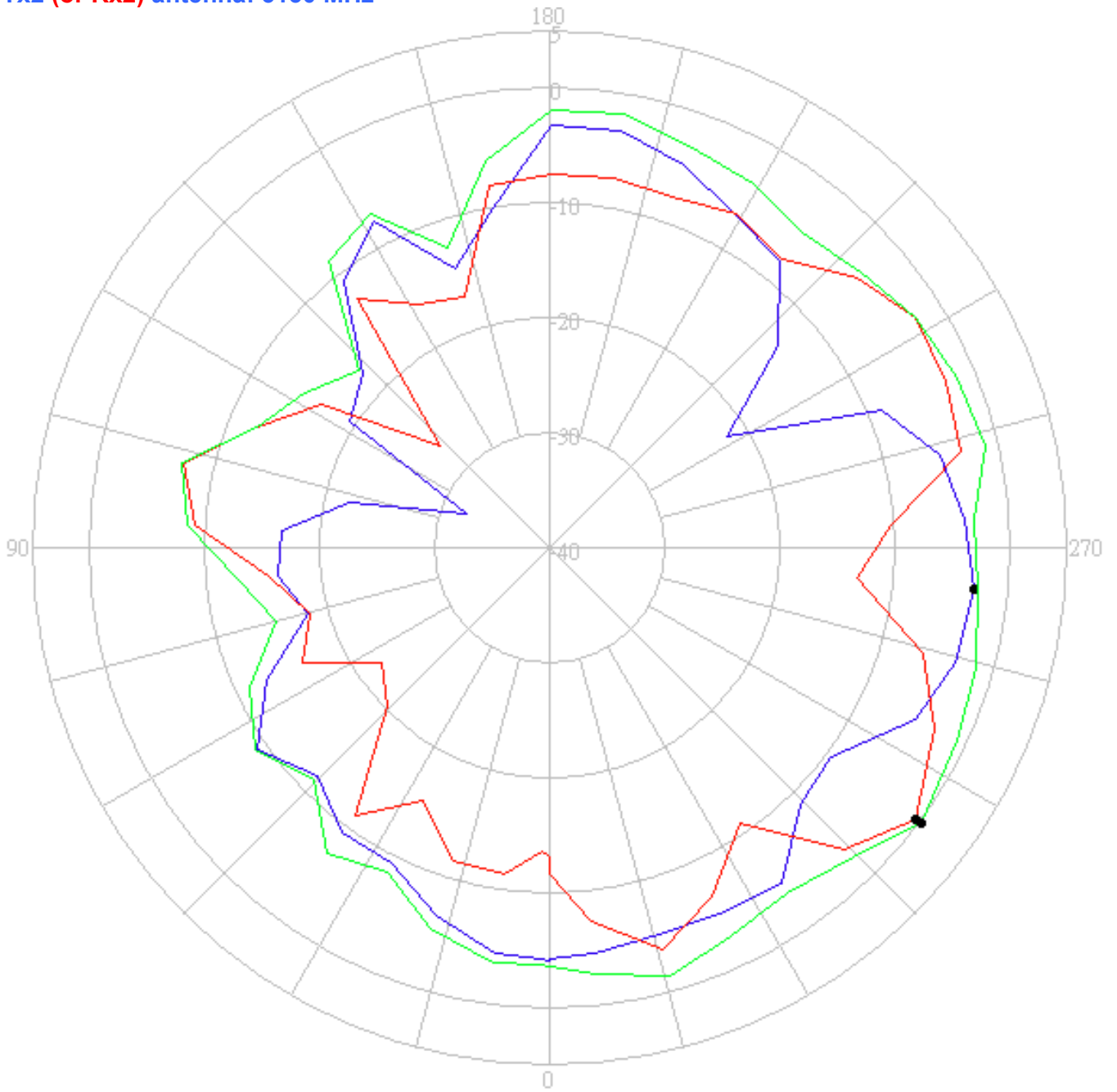
| | |
|-----------------------|-----------------|
| Center Frequency | 5250 MHz |
| Horizontal (dBi) Peak | -1.47 |
| Vertical (dBi) Peak | -1.60 |

Tx1 antenna: 5350 MHz



| | |
|-----------------------|-----------------|
| Center Frequency | 5350 MHz |
| Horizontal (dBi) Peak | -1.41 |
| Vertical (dBi) Peak | -1.74 |

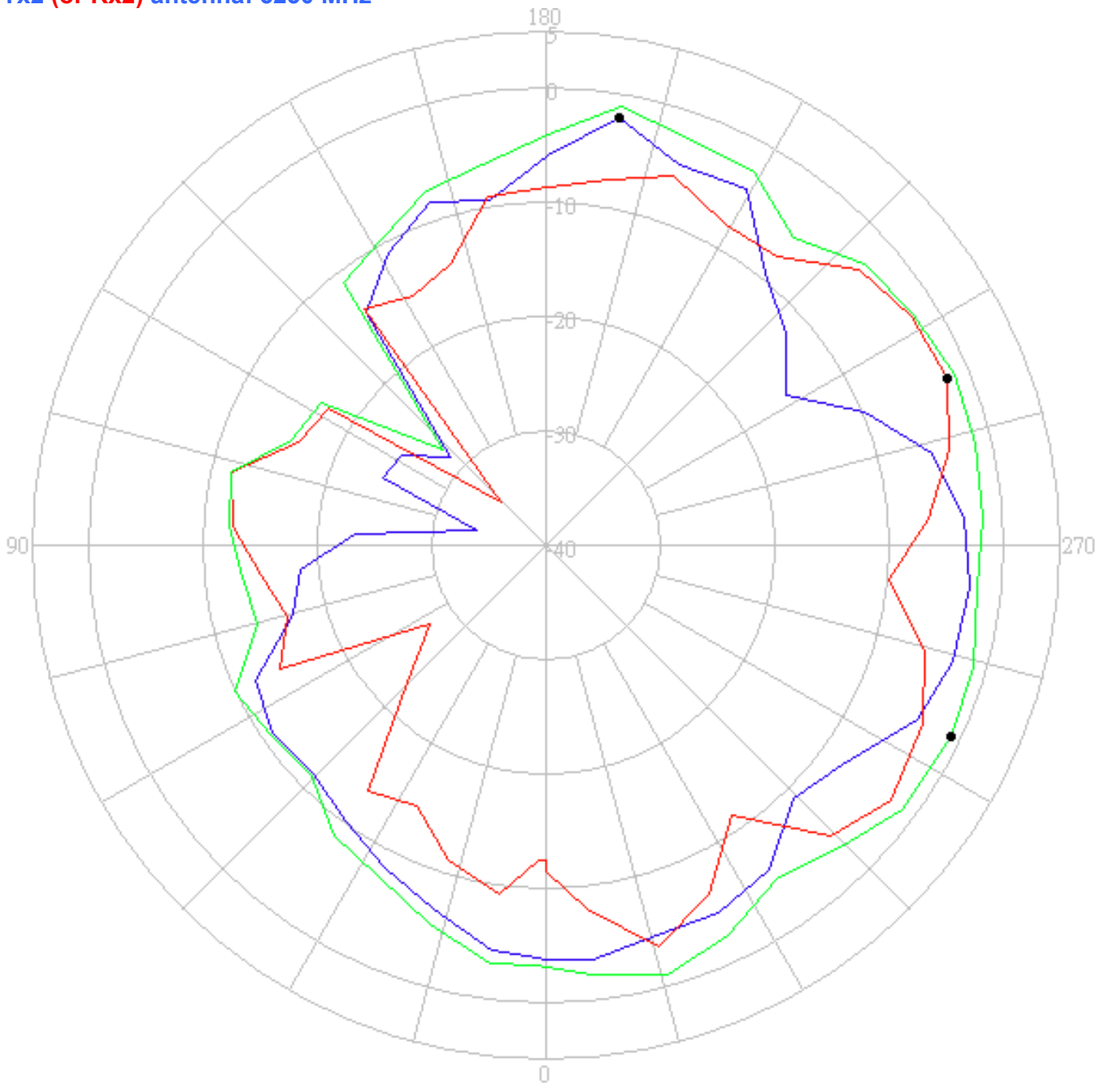
Tx2 (or Rx2) antenna: 5150 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5150 MHz |
| Horizontal (dBi) Peak | -2.93 |
| Vertical (dBi) Peak | -0.31 |

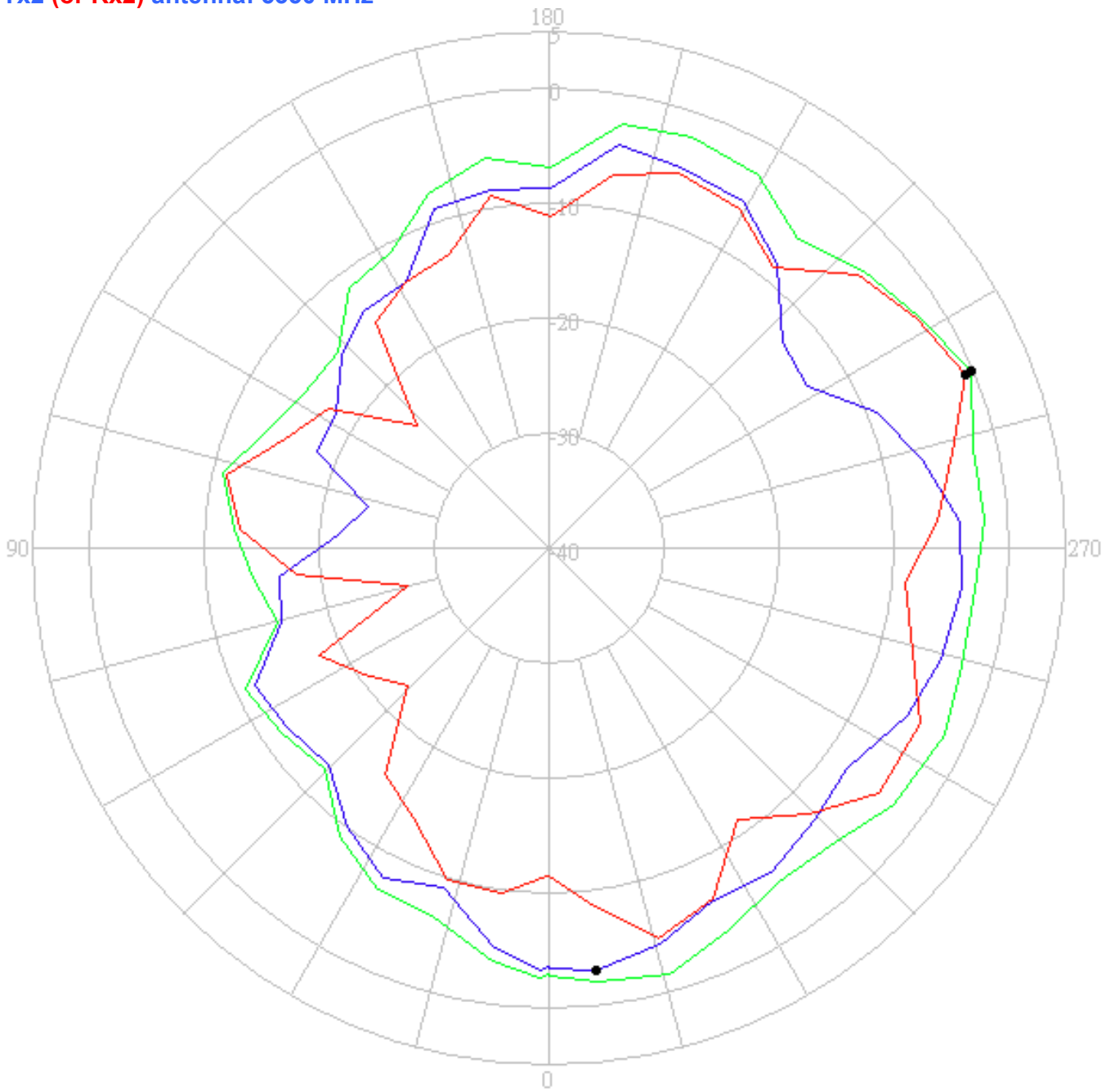
Tx2 (or Rx2) antenna: 5250 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5250 MHz |
| Horizontal (dBi) Peak | -2.06 |
| Vertical (dBi) Peak | -1.92 |

Tx2 (or Rx2) antenna: 5350 MHz

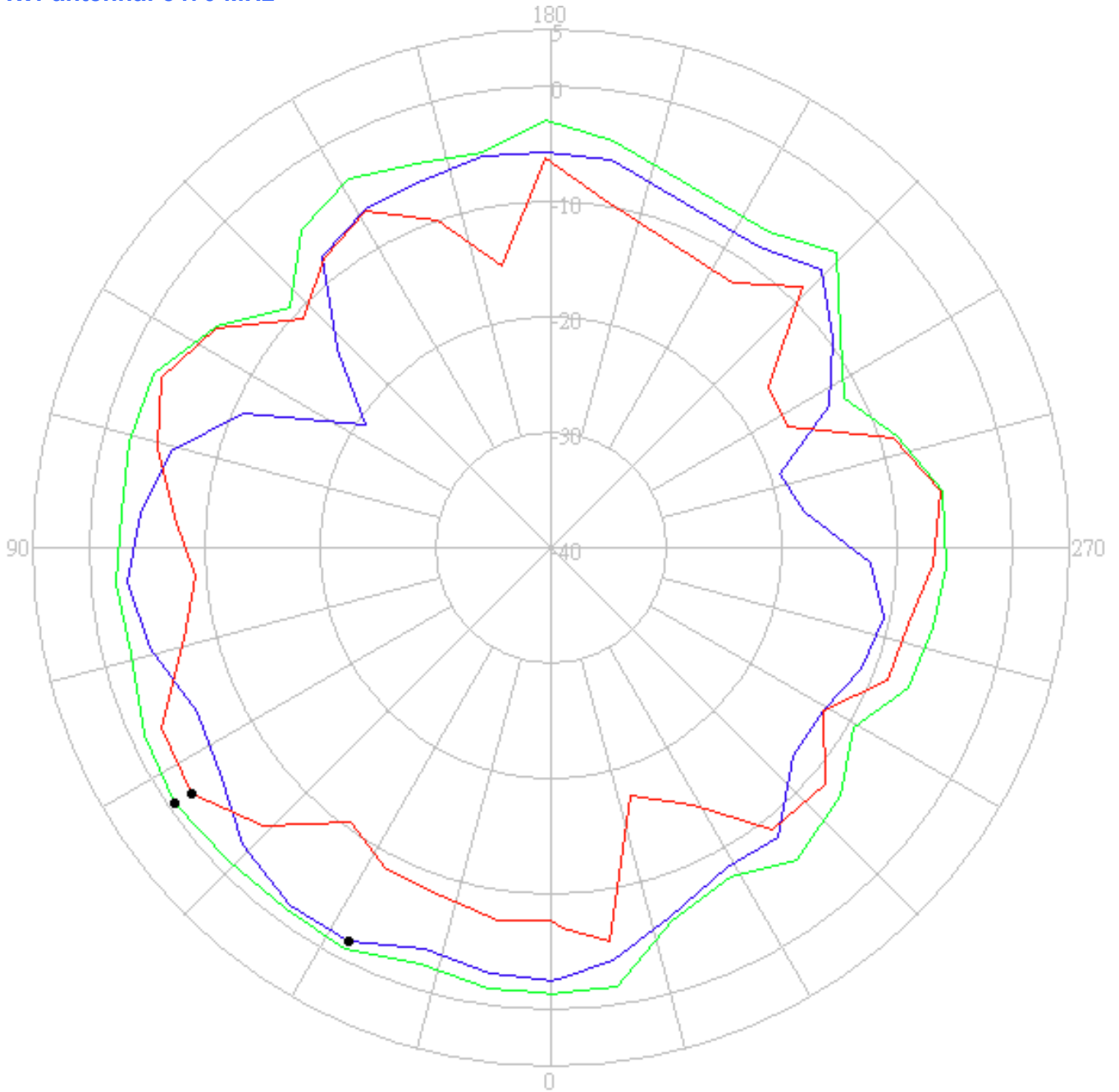


- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5350 MHz |
| Horizontal (dBi) Peak | -2.97 |
| Vertical (dBi) Peak | -0.62 |

5470-5725MHz radiation characteristic (Laptop Mode)

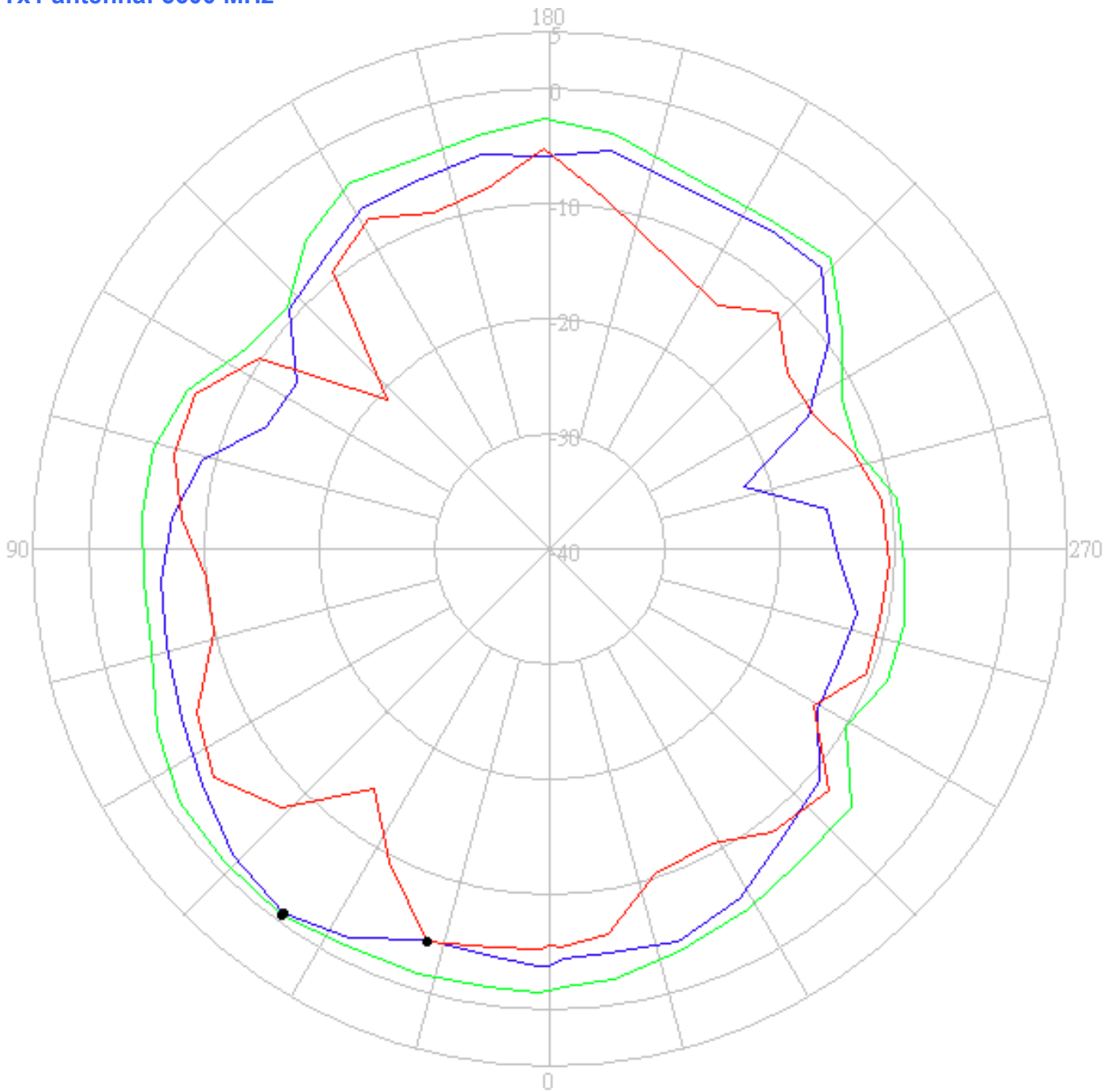
Tx1 antenna: 5470 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5470 MHz |
| Horizontal (dBi) Peak | -1.58 |
| Vertical (dBi) Peak | -2.19 |

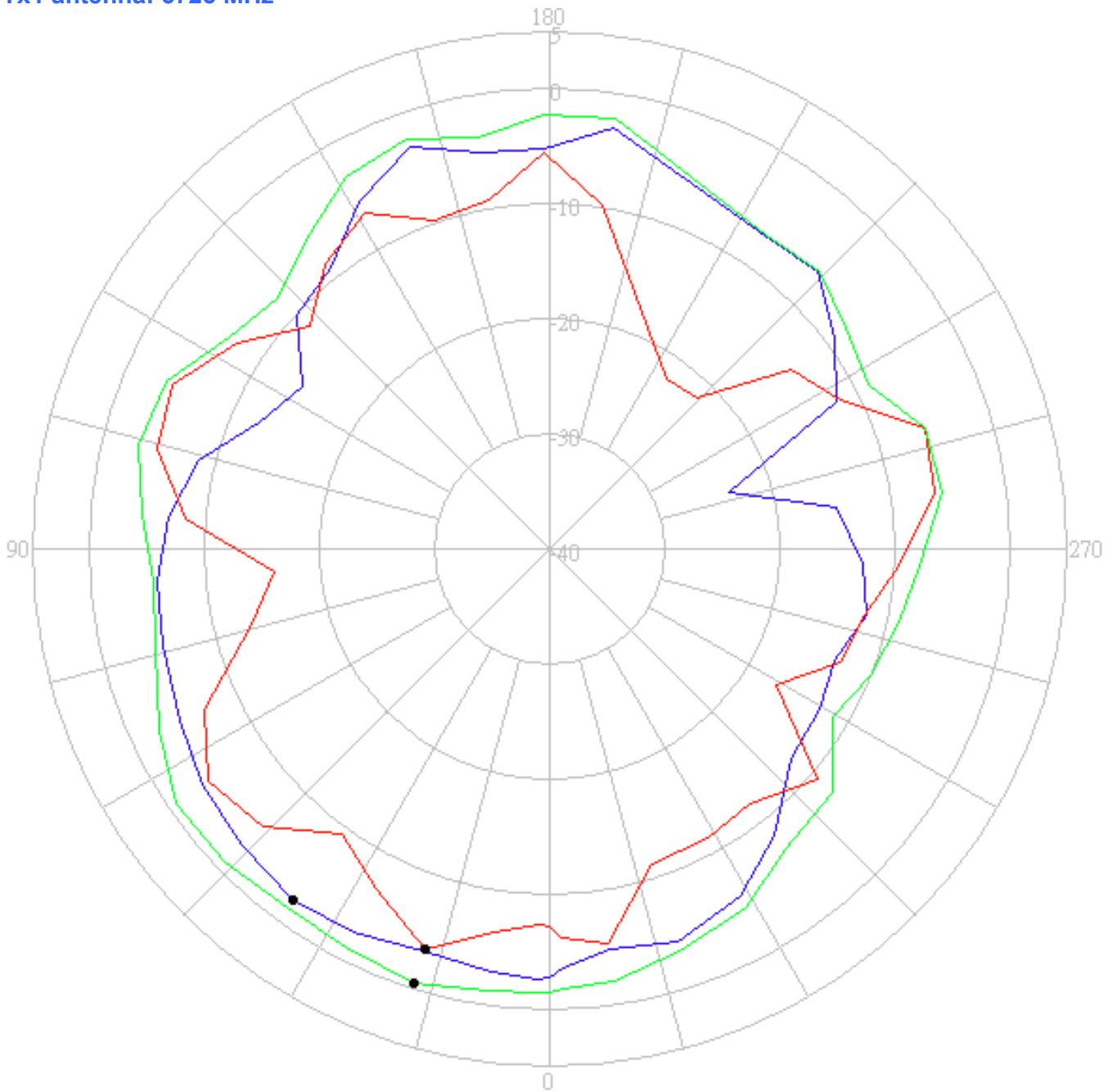
Tx1 antenna: 5600 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5600 MHz |
| Horizontal (dBi) Peak | -0.75 |
| Vertical (dBi) Peak | -4.27 |

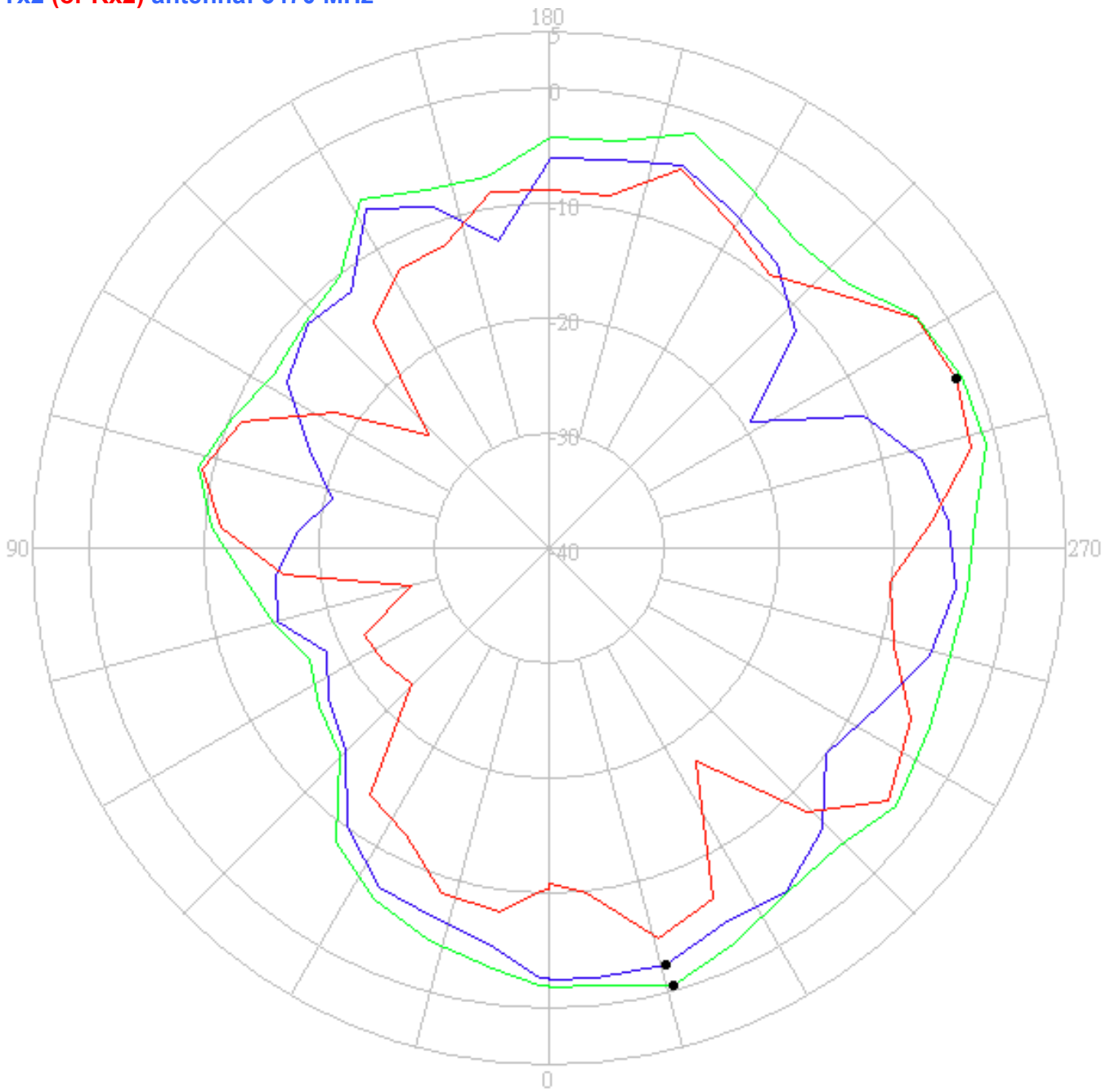
Tx1 antenna: 5725 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) Peak | -2.20 |
| Vertical (dBi) Peak | -3.48 |

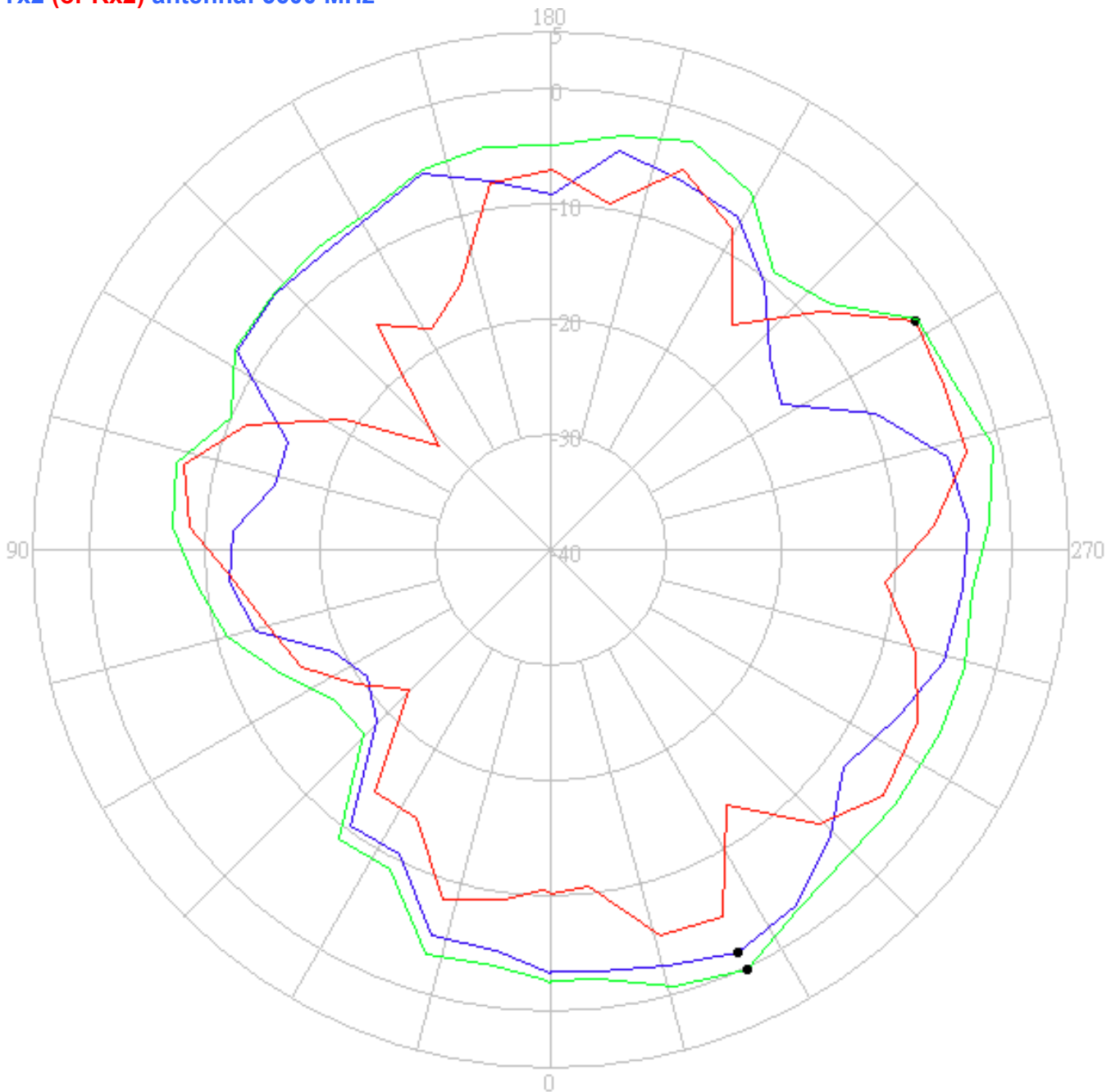
Tx2 (or Rx2) antenna: 5470 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5470 MHz |
| Horizontal (dBi) Peak | -2.29 |
| Vertical (dBi) Peak | -1.57 |

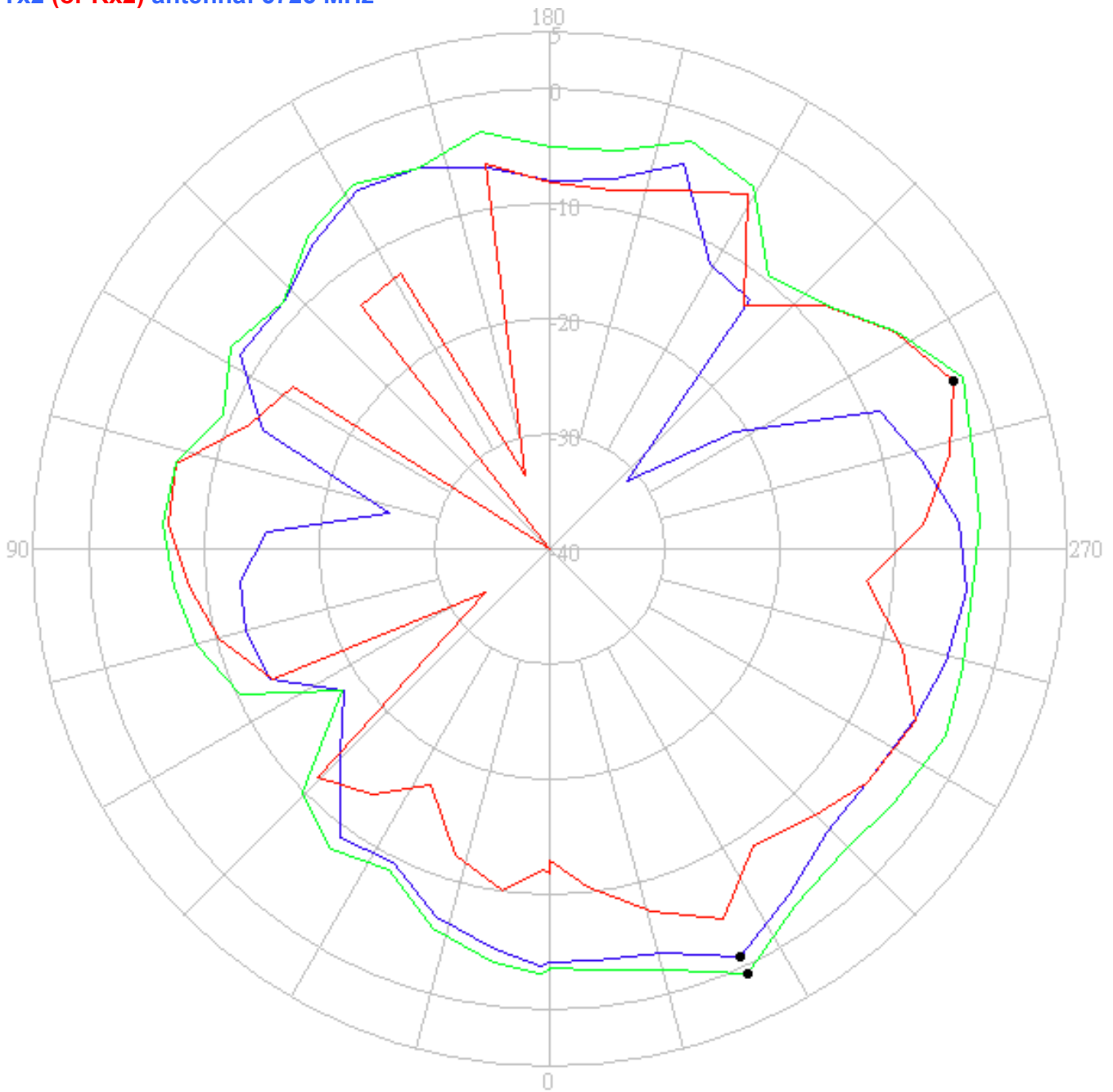
Tx2 (or Rx2) antenna: 5600 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5600 MHz |
| Horizontal (dBi) Peak | -1.43 |
| Vertical (dBi) Peak | -2.50 |

Tx2 (or Rx2) antenna: 5725 MHz

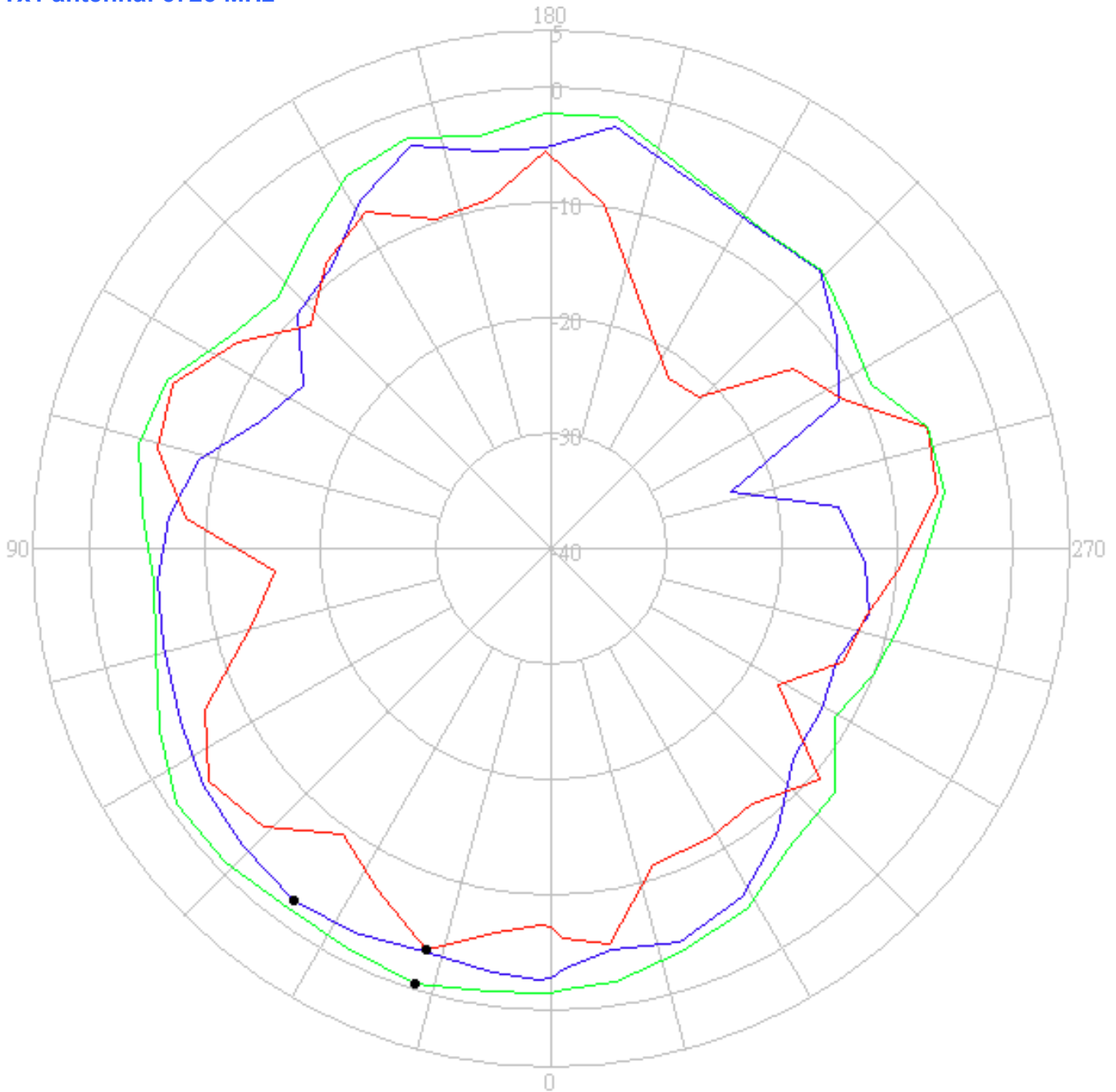


- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) Peak | -0.81 |
| Vertical (dBi) Peak | -1.90 |

5725-5850 MHz radiation characteristic (Laptop Mode)

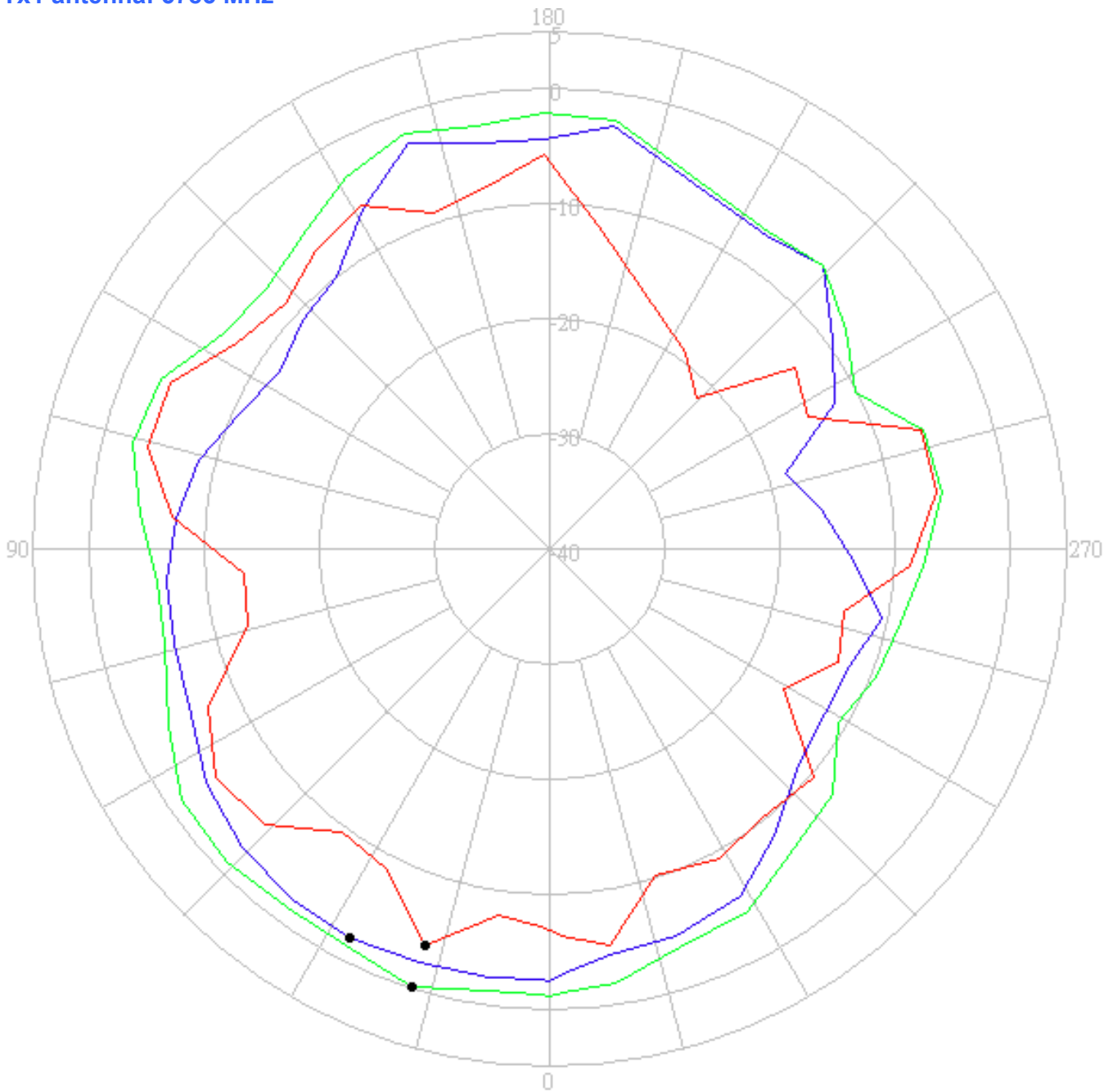
Tx1 antenna: 5725 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) Peak | -2.20 |
| Vertical (dBi) Peak | -3.48 |

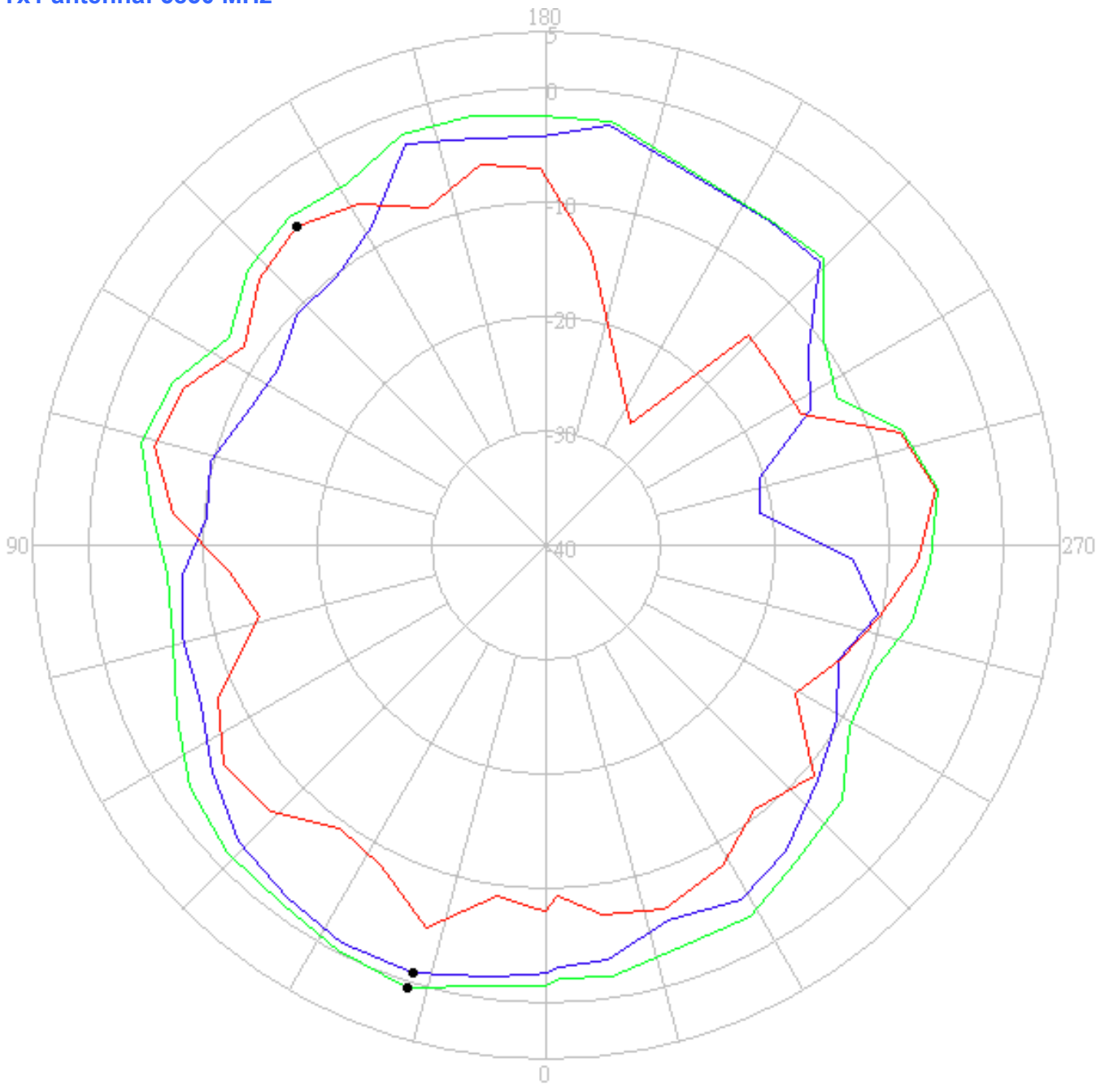
Tx1 antenna: 5785 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5785 MHz |
| Horizontal (dBi) Peak | -1.96 |
| Vertical (dBi) Peak | -3.90 |

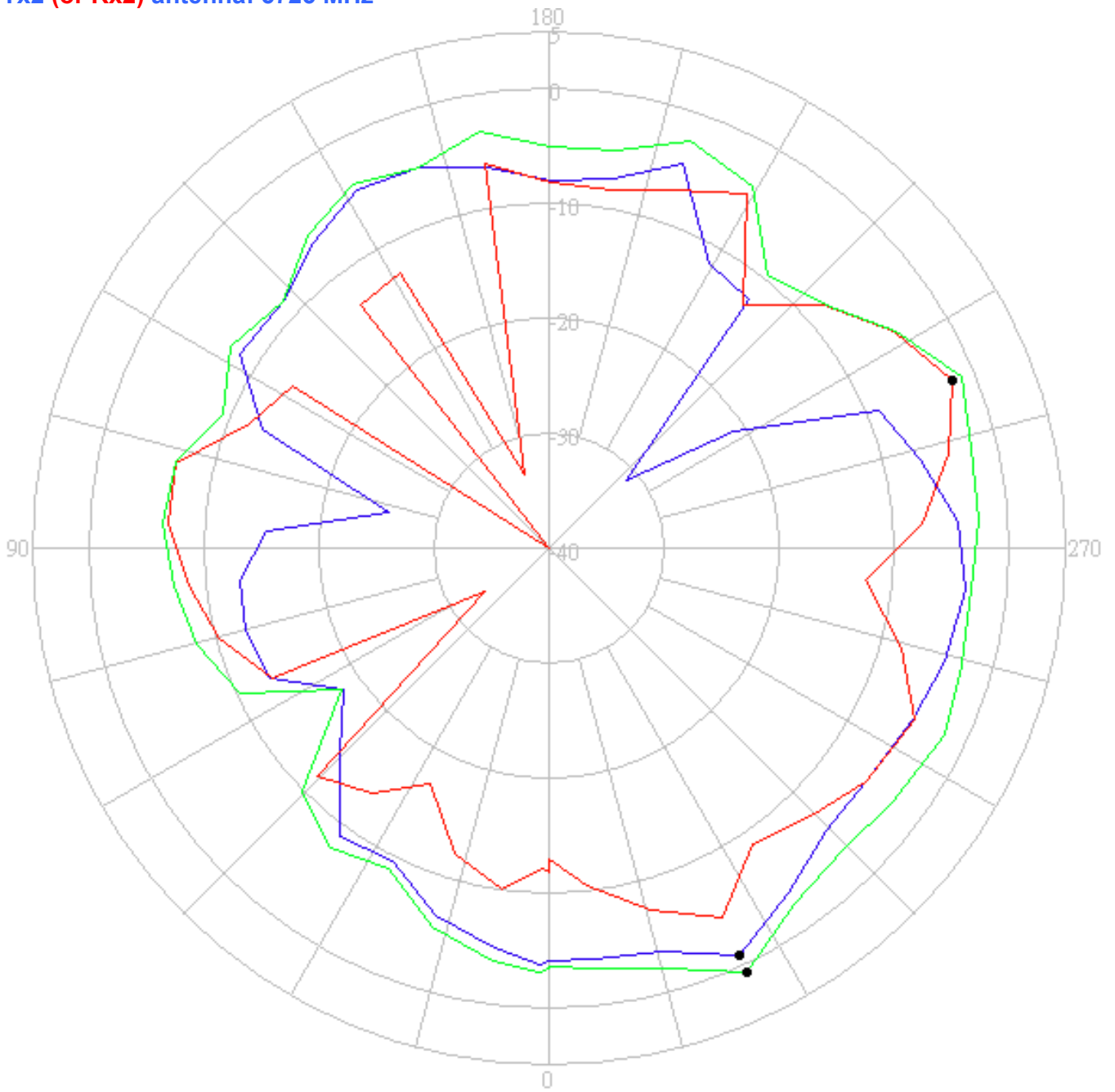
Tx1 antenna: 5850 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5850 MHz |
| Horizontal (dBi) Peak | -0.76 |
| Vertical (dBi) Peak | -4.49 |

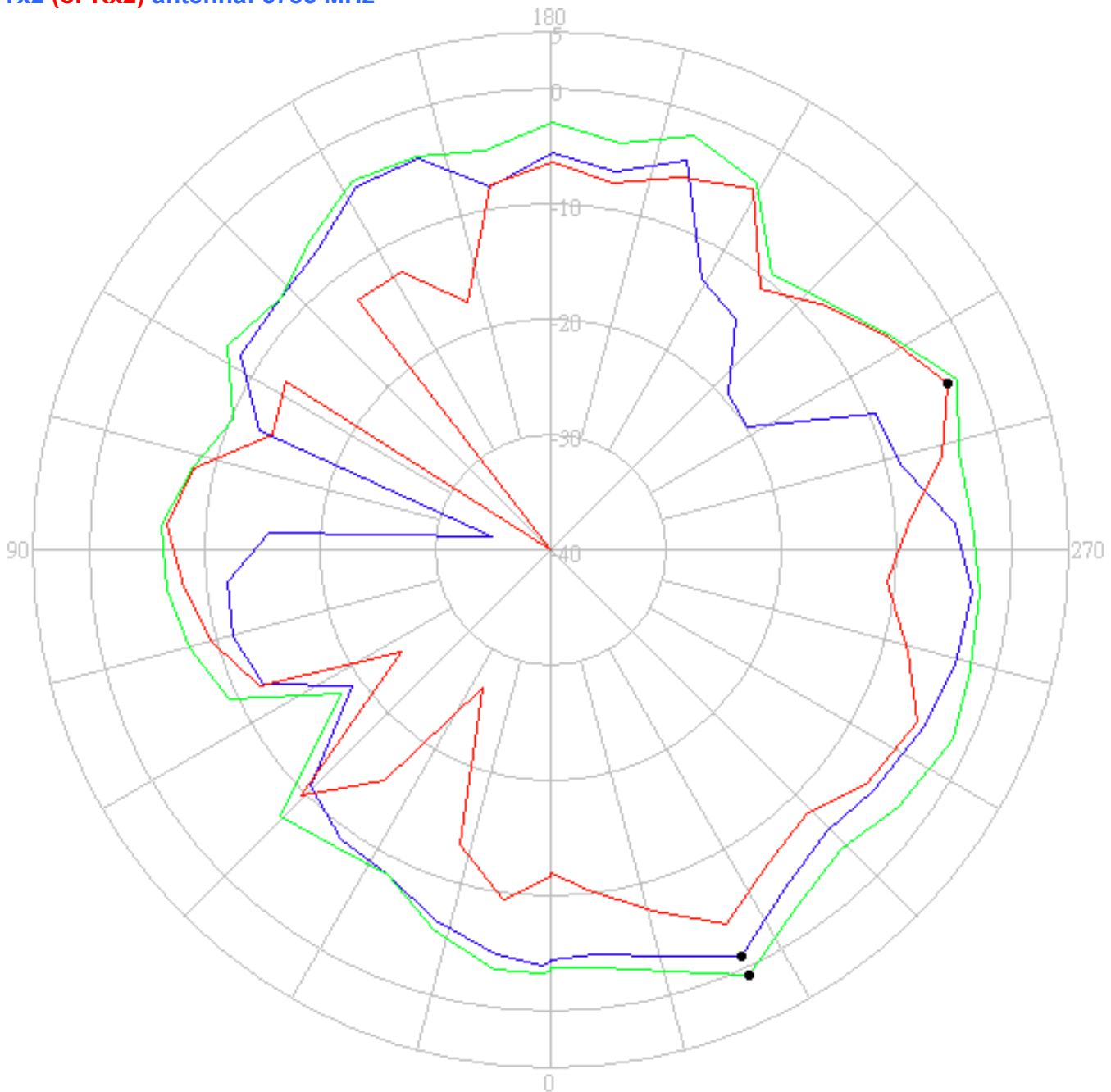
Tx2 (or Rx2) antenna: 5725 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) Peak | -0.81 |
| Vertical (dBi) Peak | -1.90 |

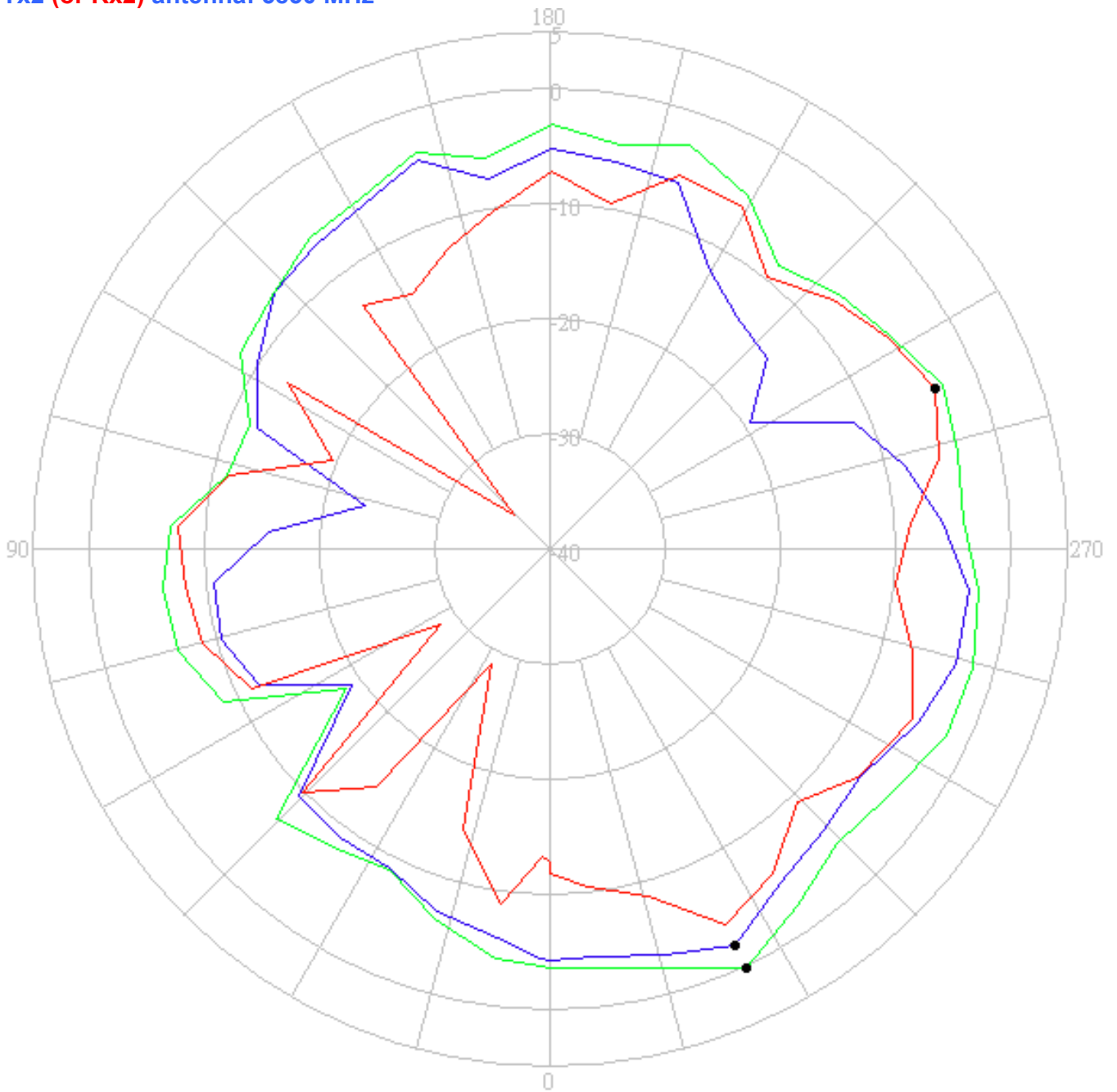
Tx2 (or Rx2) antenna: 5785 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5785 MHz |
| Horizontal (dBi) Peak | -0.97 |
| Vertical (dBi) Peak | -2.65 |

Tx2 (or Rx2) antenna: 5850 MHz

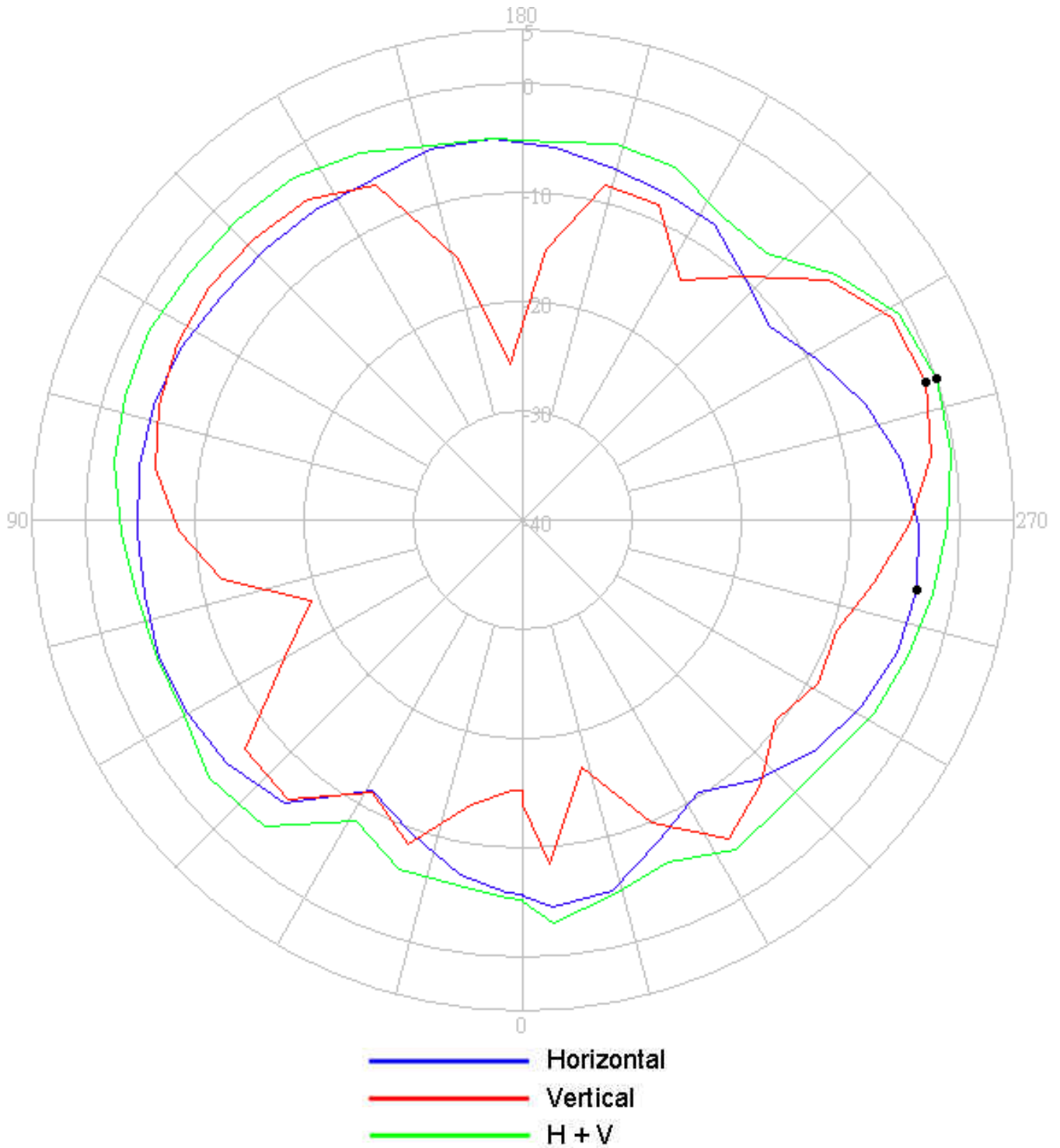


- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5850 MHz |
| Horizontal (dBi) Peak | -1.93 |
| Vertical (dBi) Peak | -3.63 |

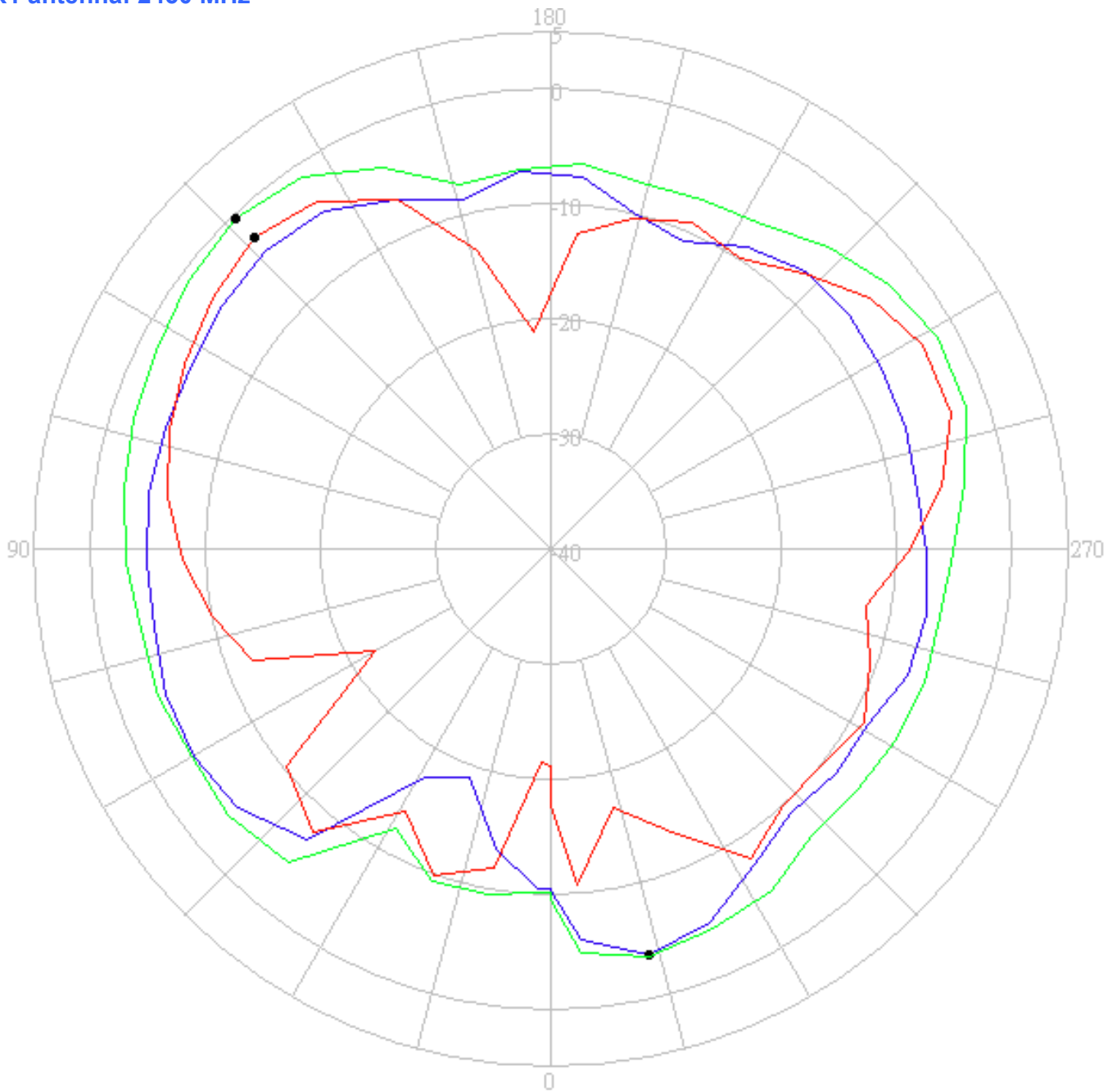
2400-2500MHz radiation characteristic (Table Mode)

Tx1 antenna: 2400 MHz



| | |
|-----------------------|-----------------|
| Center Frequency | 2400 MHz |
| Horizontal (dBi) Peak | -3.32 |
| Vertical (dBi) Peak | -0.91 |

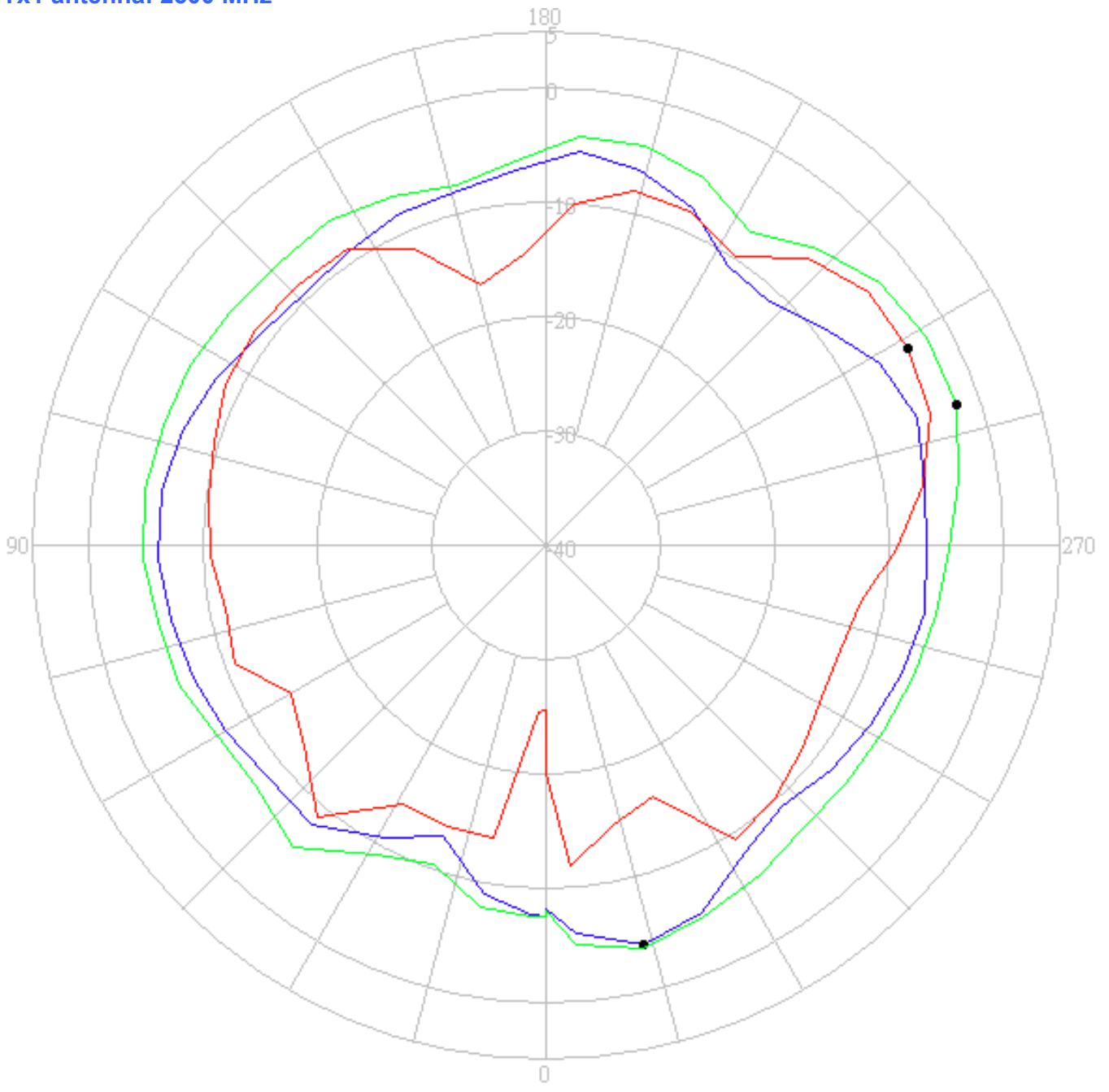
Tx1 antenna: 2450 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 2450 MHz |
| Horizontal (dBi) Peak | -3.73 |
| Vertical (dBi) Peak | -2.62 |

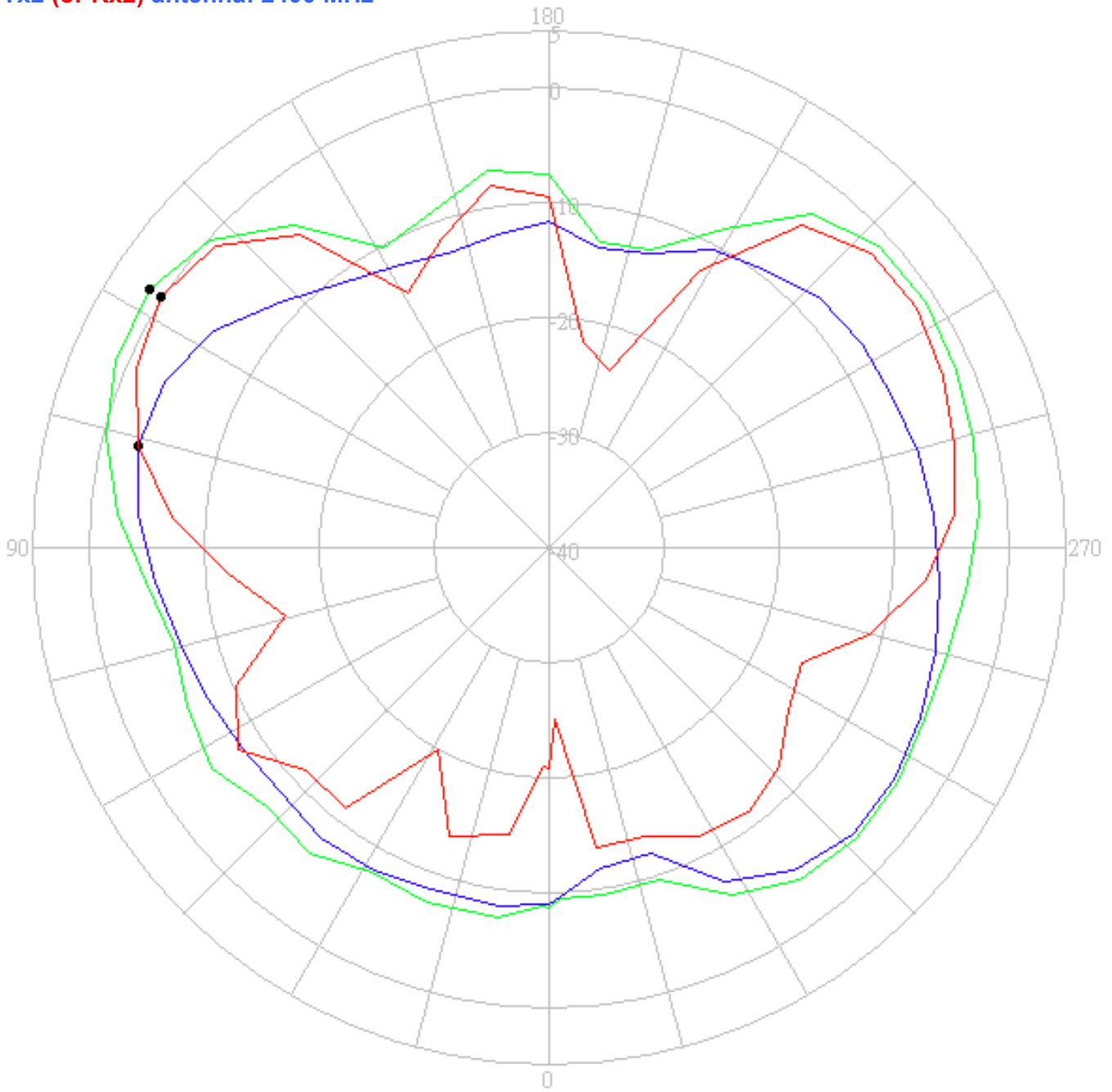
Tx1 antenna: 2500 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 2500 MHz |
| Horizontal (dBi) Peak | -4.07 |
| Vertical (dBi) Peak | -3.88 |

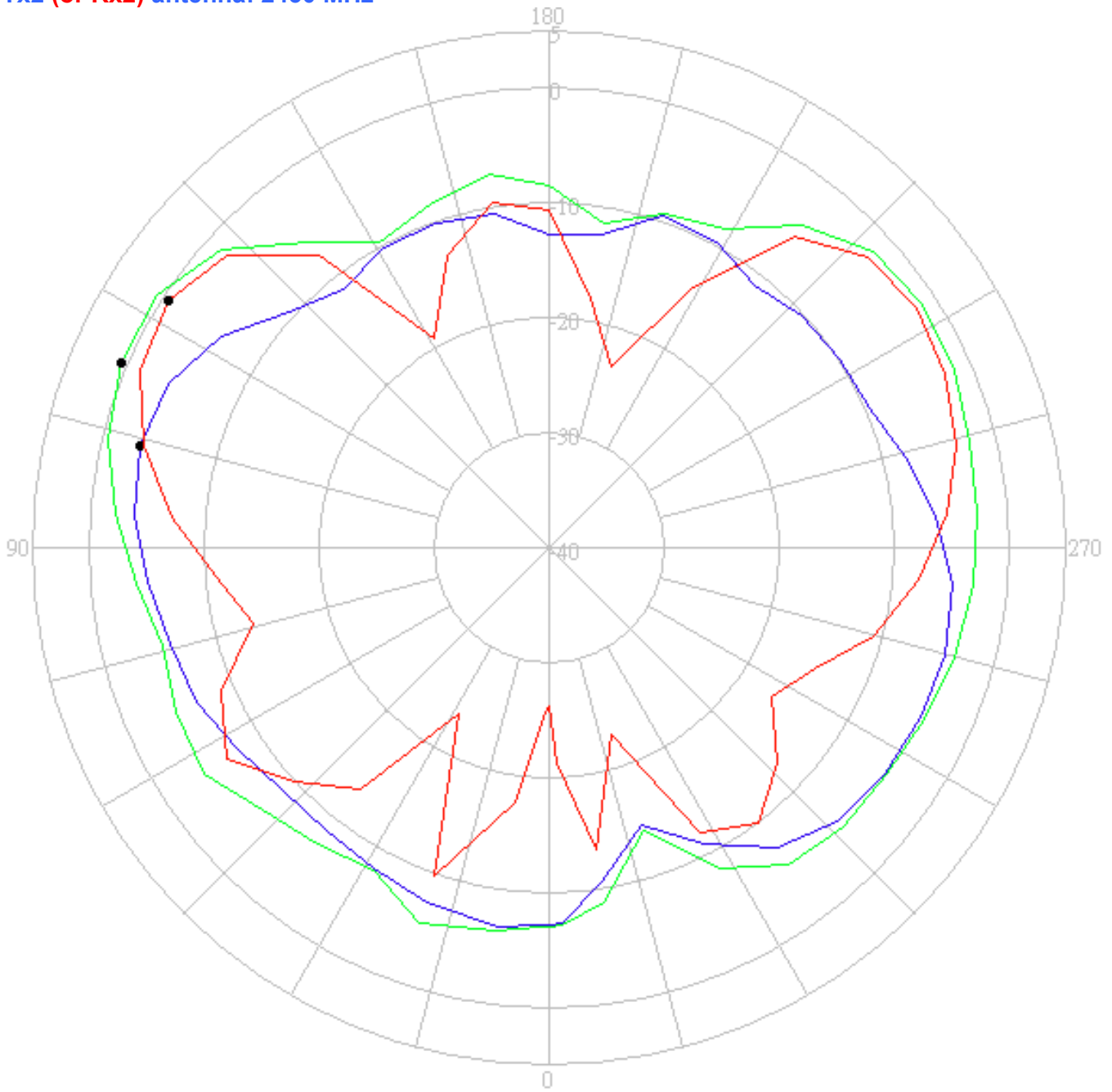
Tx2 (or Rx2) antenna: 2400 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 2400 MHz |
| Horizontal (dBi) Peak | -3.17 |
| Vertical (dBi) Peak | 0.29 |

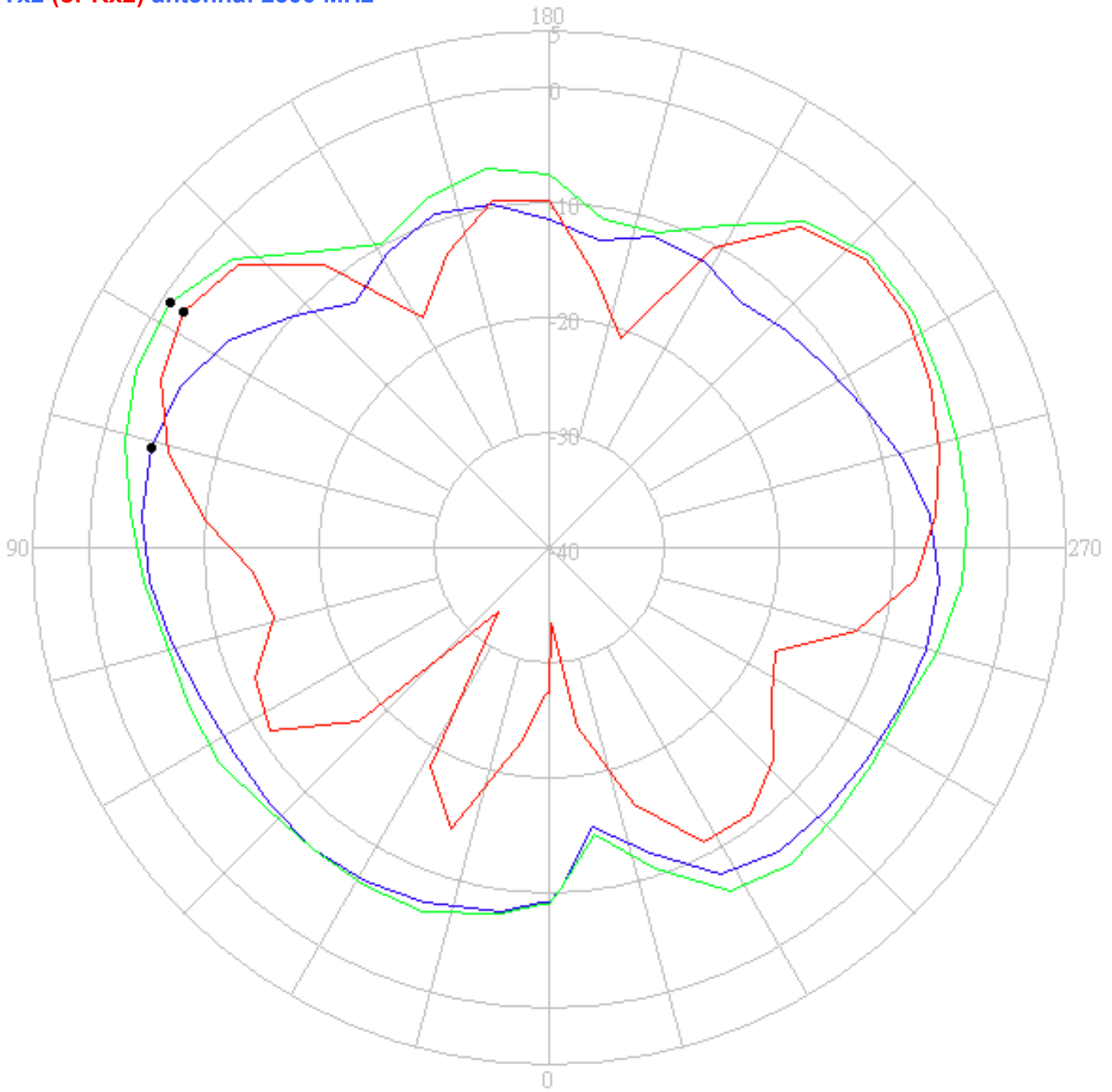
Tx2 (or Rx2) antenna: 2450 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 2450 MHz |
| Horizontal (dBi) Peak | -3.24 |
| Vertical (dBi) Peak | -0.45 |

Tx2 (or Rx2) antenna: 2500 MHz

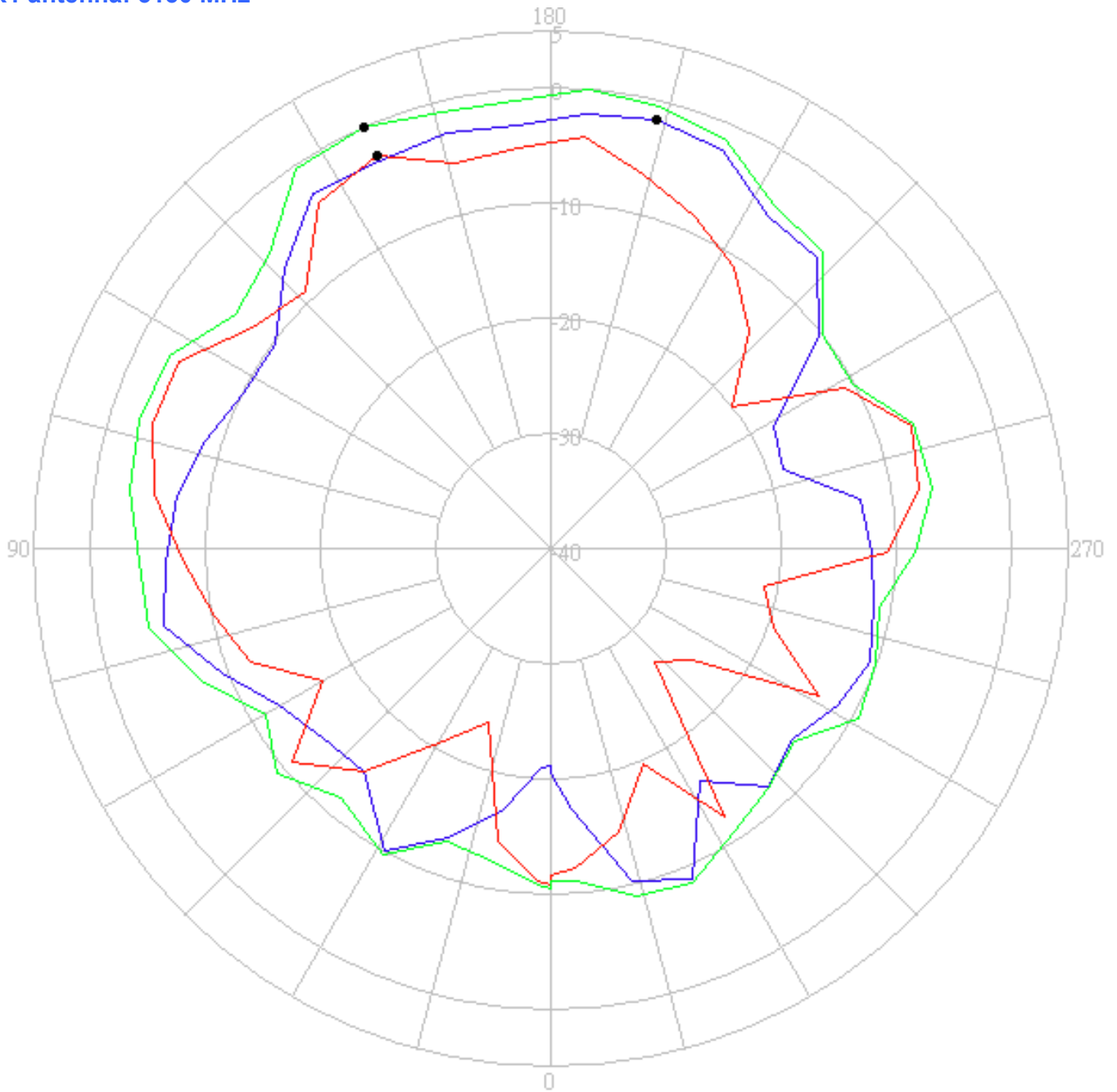


- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 2500 MHz |
| Horizontal (dBi) Peak | -4.22 |
| Vertical (dBi) Peak | -2.02 |

5150-5350 MHz radiation characteristic (Table Mode)

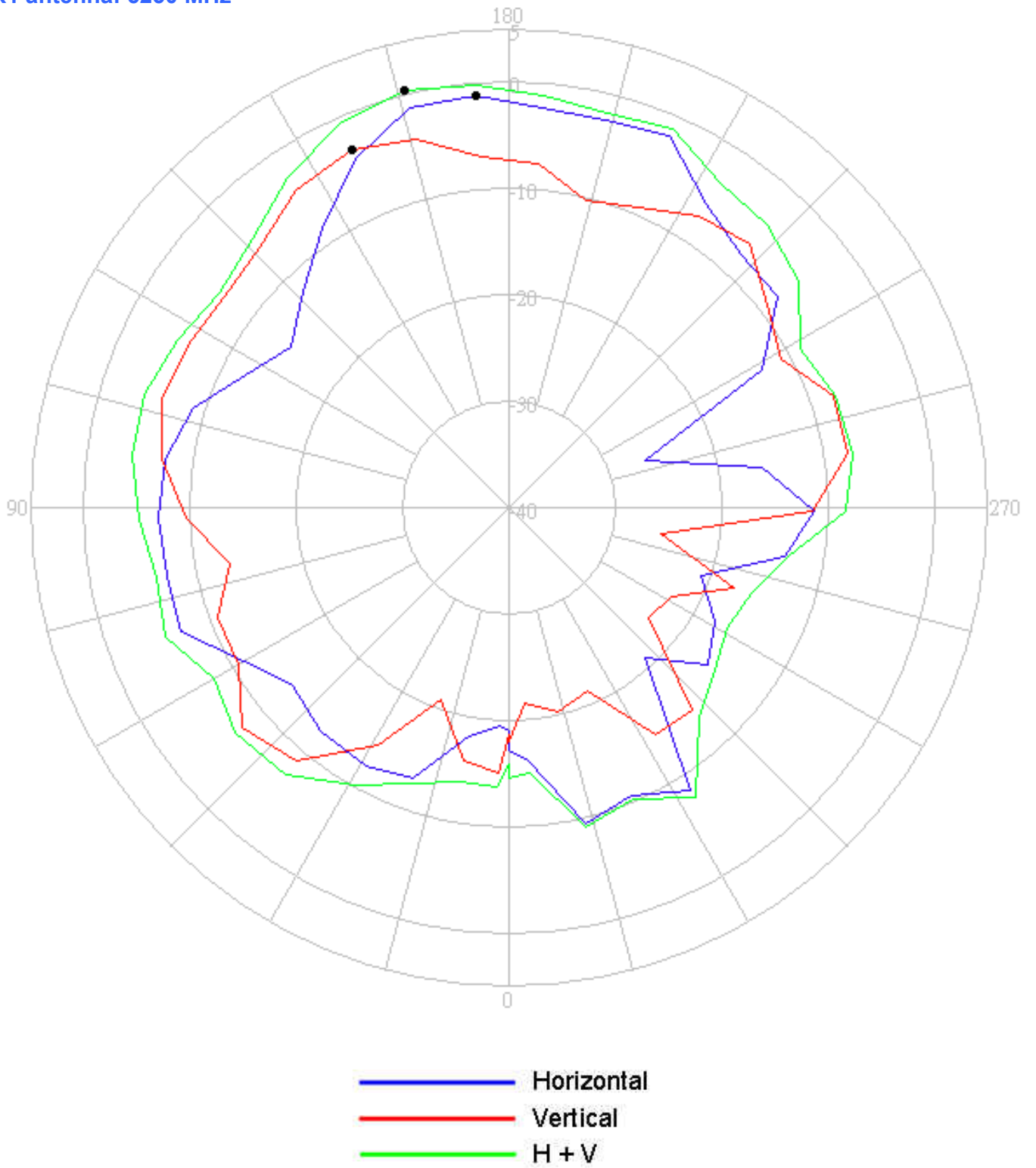
Tx1 antenna: 5150 MHz



- Horizontal
- Vertical
- H + V

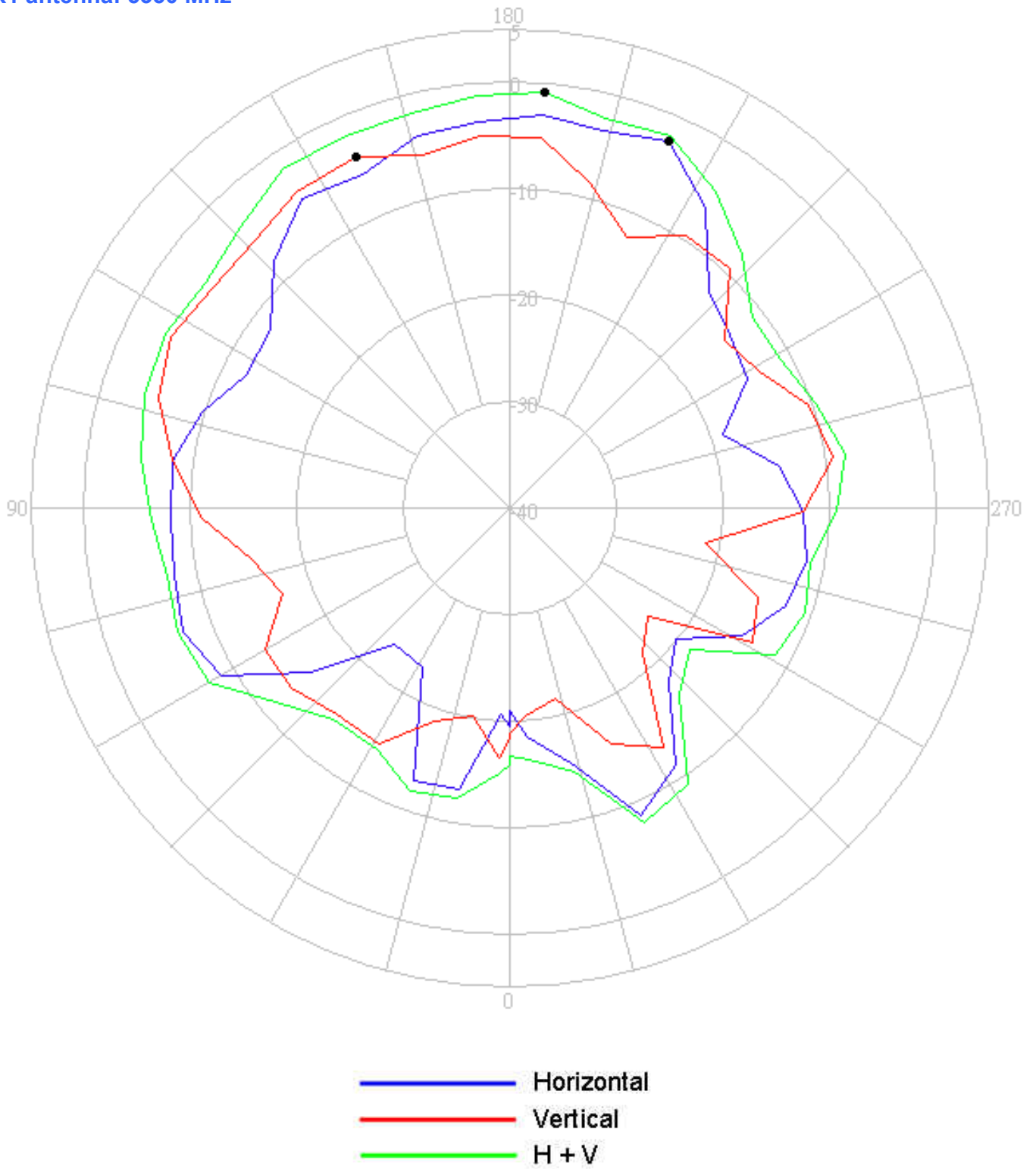
| | |
|-----------------------|-----------------|
| Center Frequency | 5150 MHz |
| Horizontal (dBi) Peak | -1.58 |
| Vertical (dBi) Peak | -2.70 |

Tx1 antenna: 5250 MHz



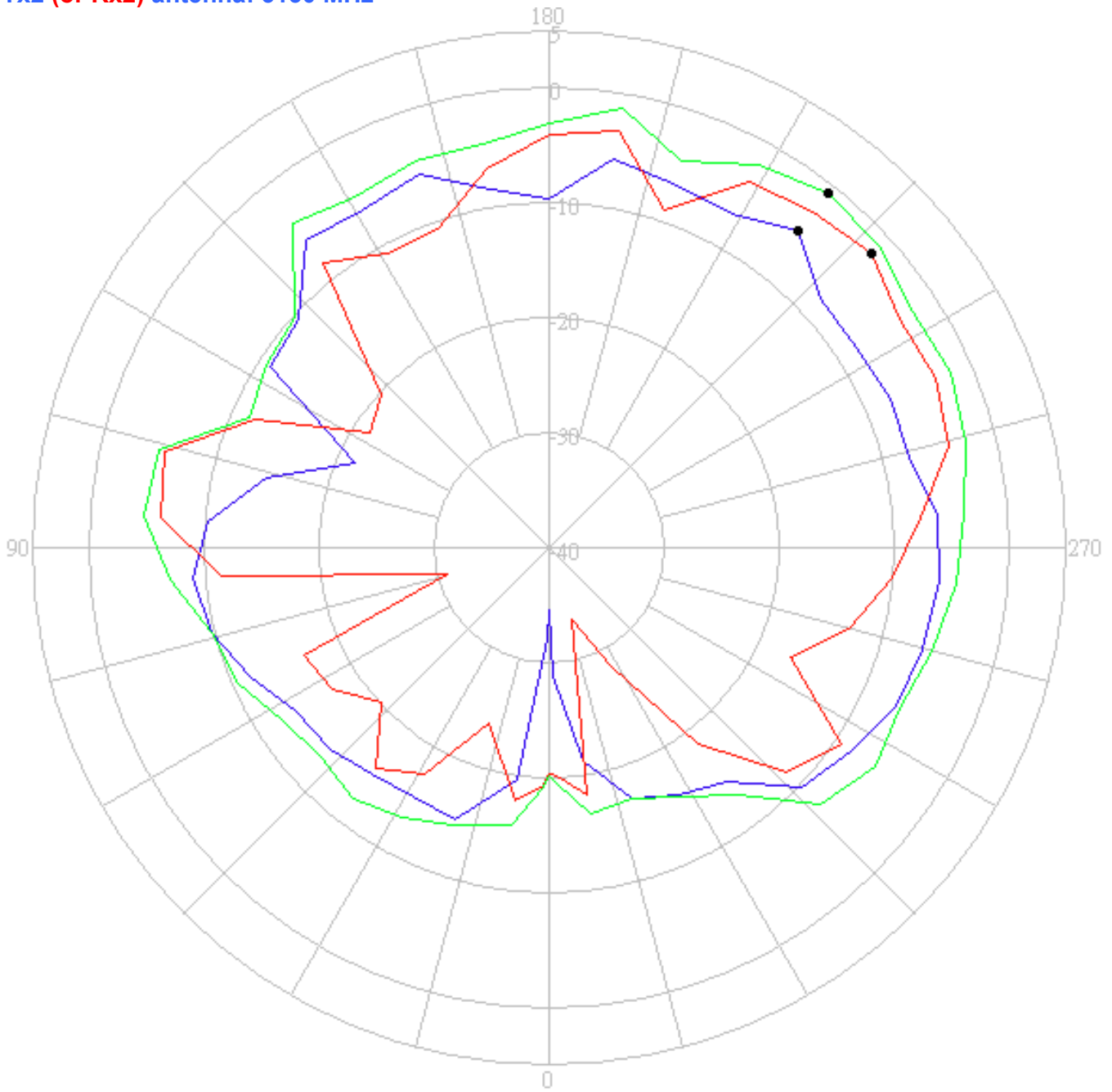
| | |
|-----------------------|-----------------|
| Center Frequency | 5250 MHz |
| Horizontal (dBi) Peak | -1.19 |
| Vertical (dBi) Peak | -3.20 |

Tx1 antenna: 5350 MHz



| | |
|-----------------------|-----------------|
| Center Frequency | 5350 MHz |
| Horizontal (dBi) Peak | -2.38 |
| Vertical (dBi) Peak | -4.01 |

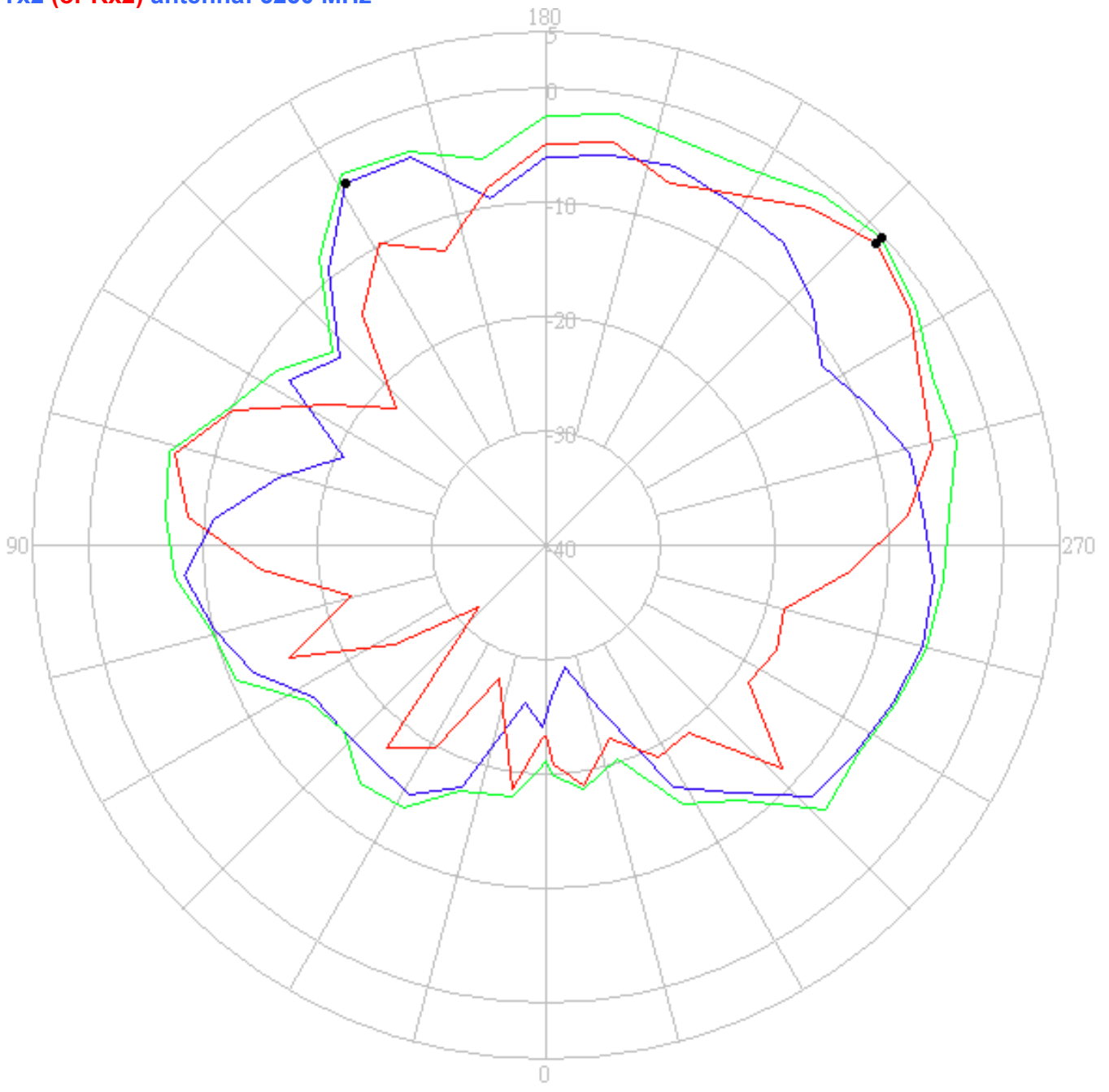
Tx2 (or Rx2) antenna: 5150 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5150 MHz |
| Horizontal (dBi) Peak | -4.82 |
| Vertical (dBi) Peak | -1.94 |

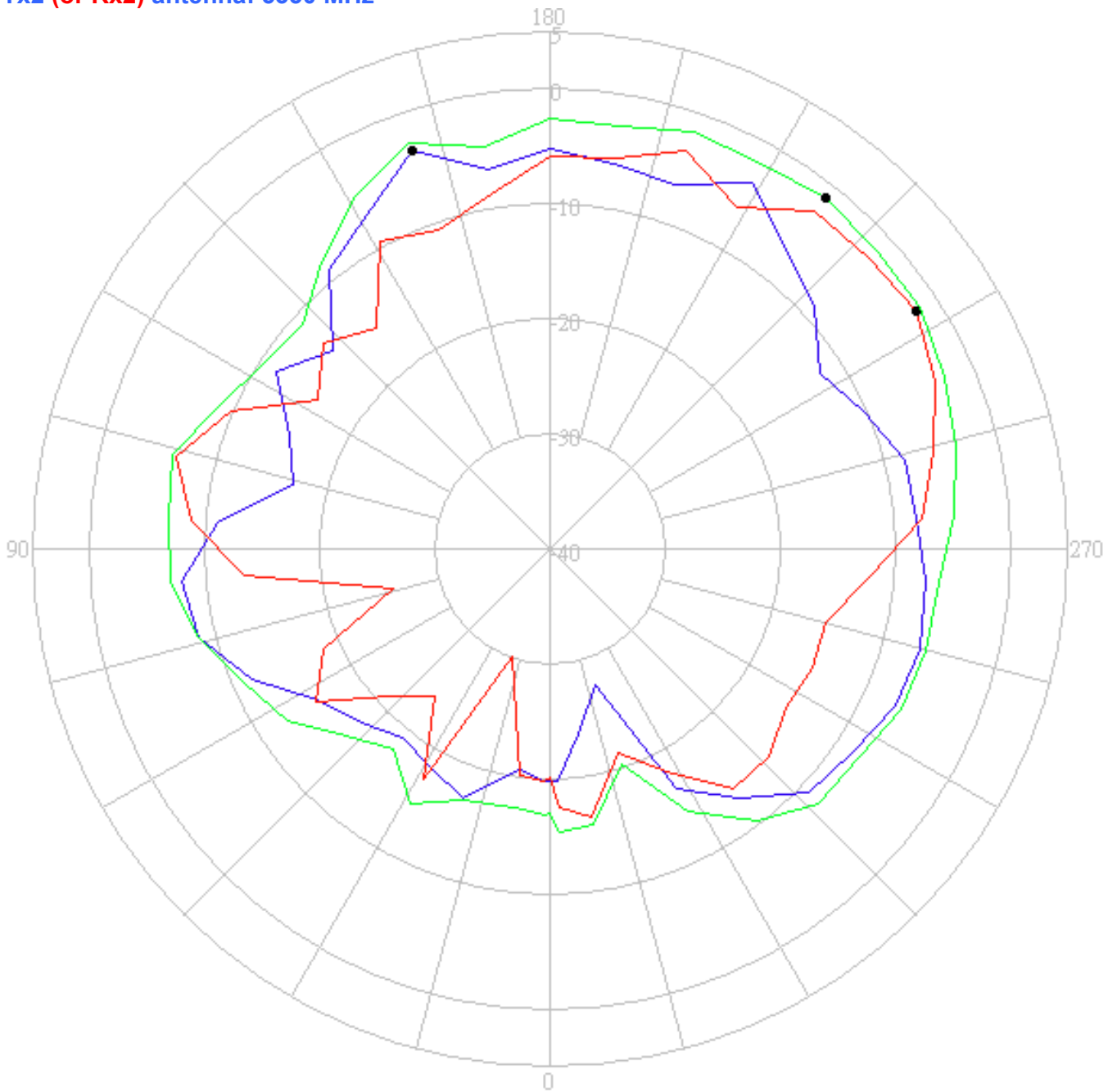
Tx2 (or Rx2) antenna: 5250 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5250 MHz |
| Horizontal (dBi) Peak | -3.80 |
| Vertical (dBi) Peak | -0.83 |

Tx2 (or Rx2) antenna: 5350 MHz

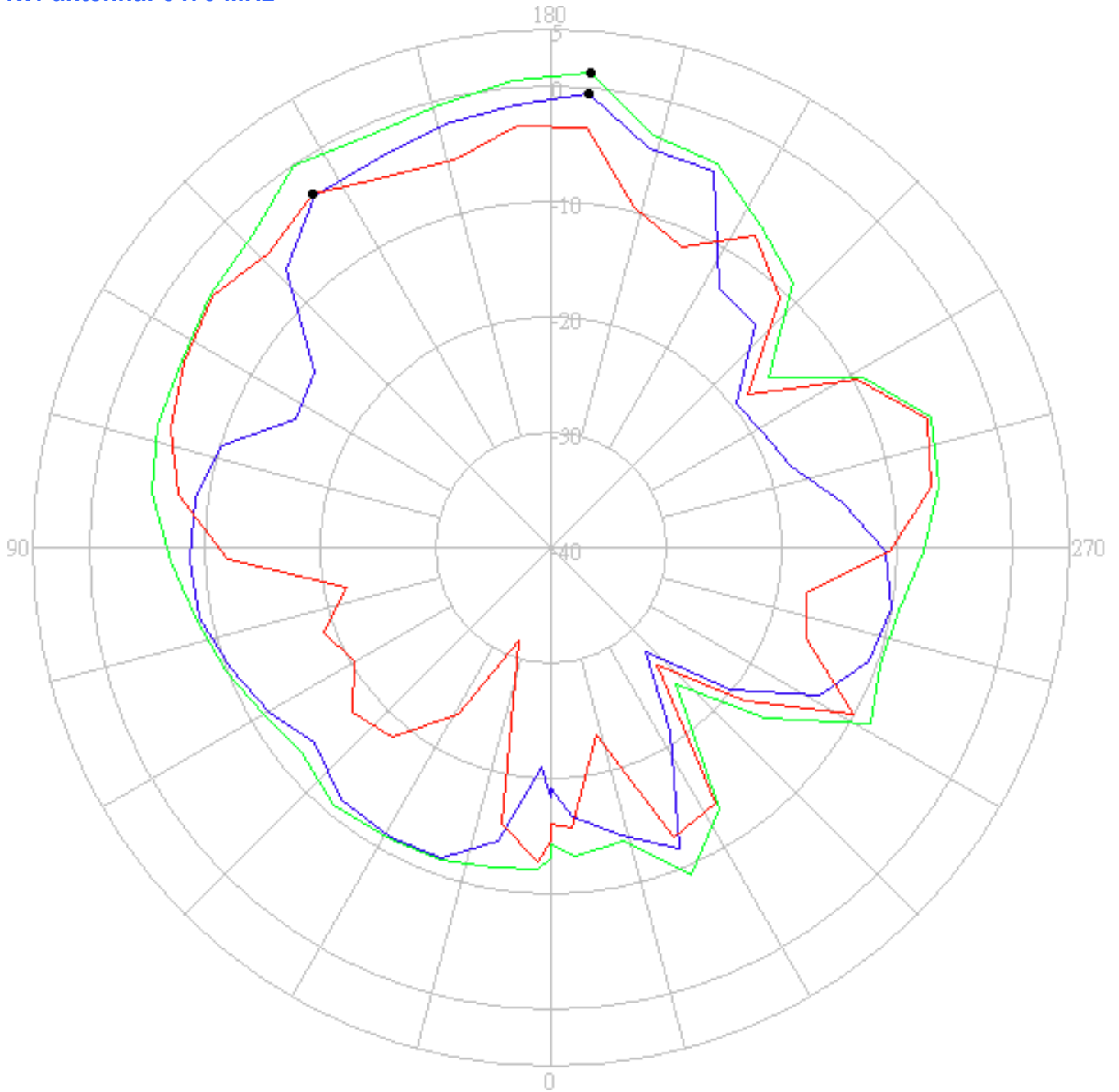


- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5350 MHz |
| Horizontal (dBi) Peak | -3.33 |
| Vertical (dBi) Peak | -1.92 |

5470-5725MHz radiation characteristic (Table Mode)

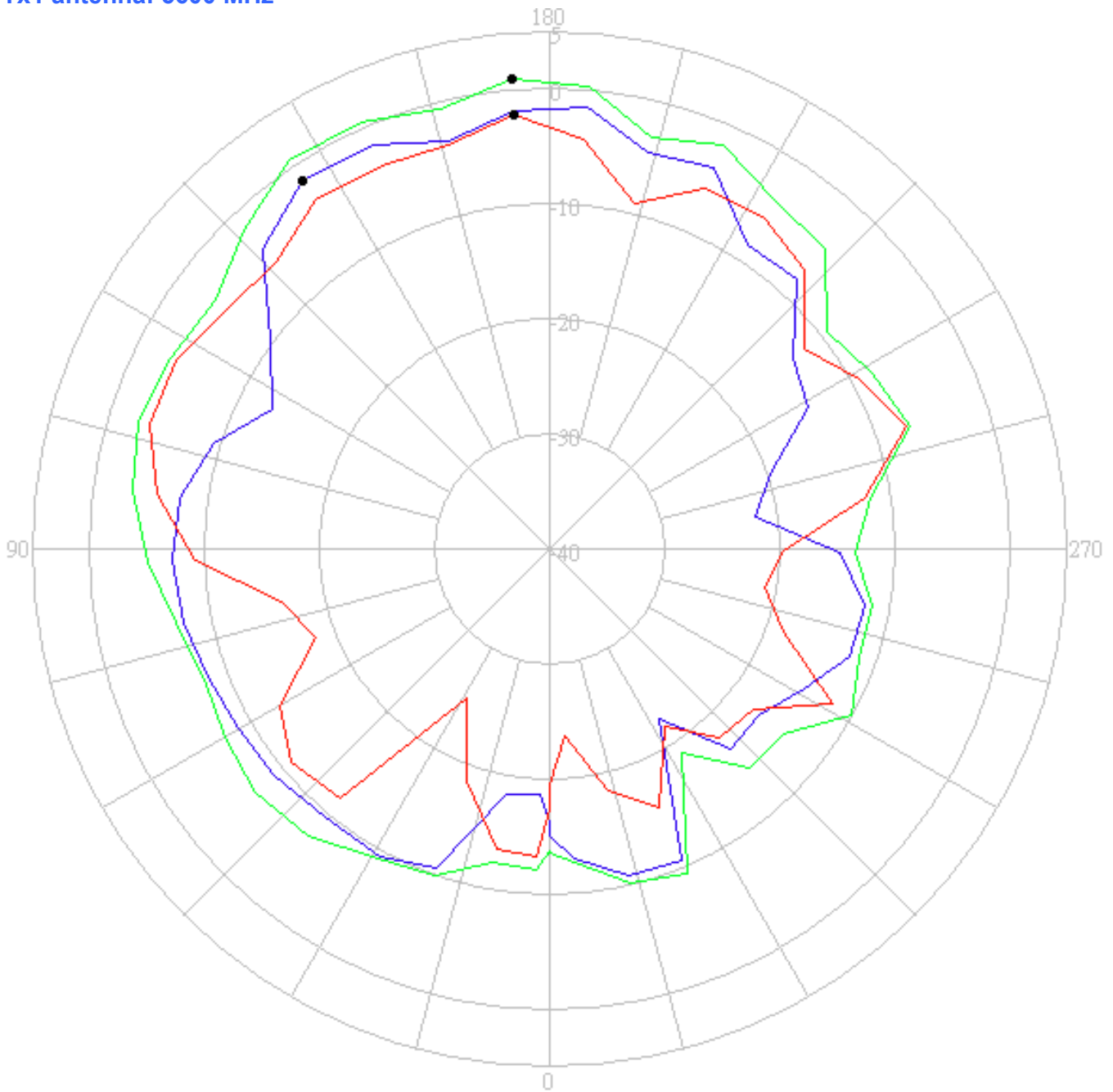
Tx1 antenna: 5470 MHz



- Horizontal
- Vertical
- H + V

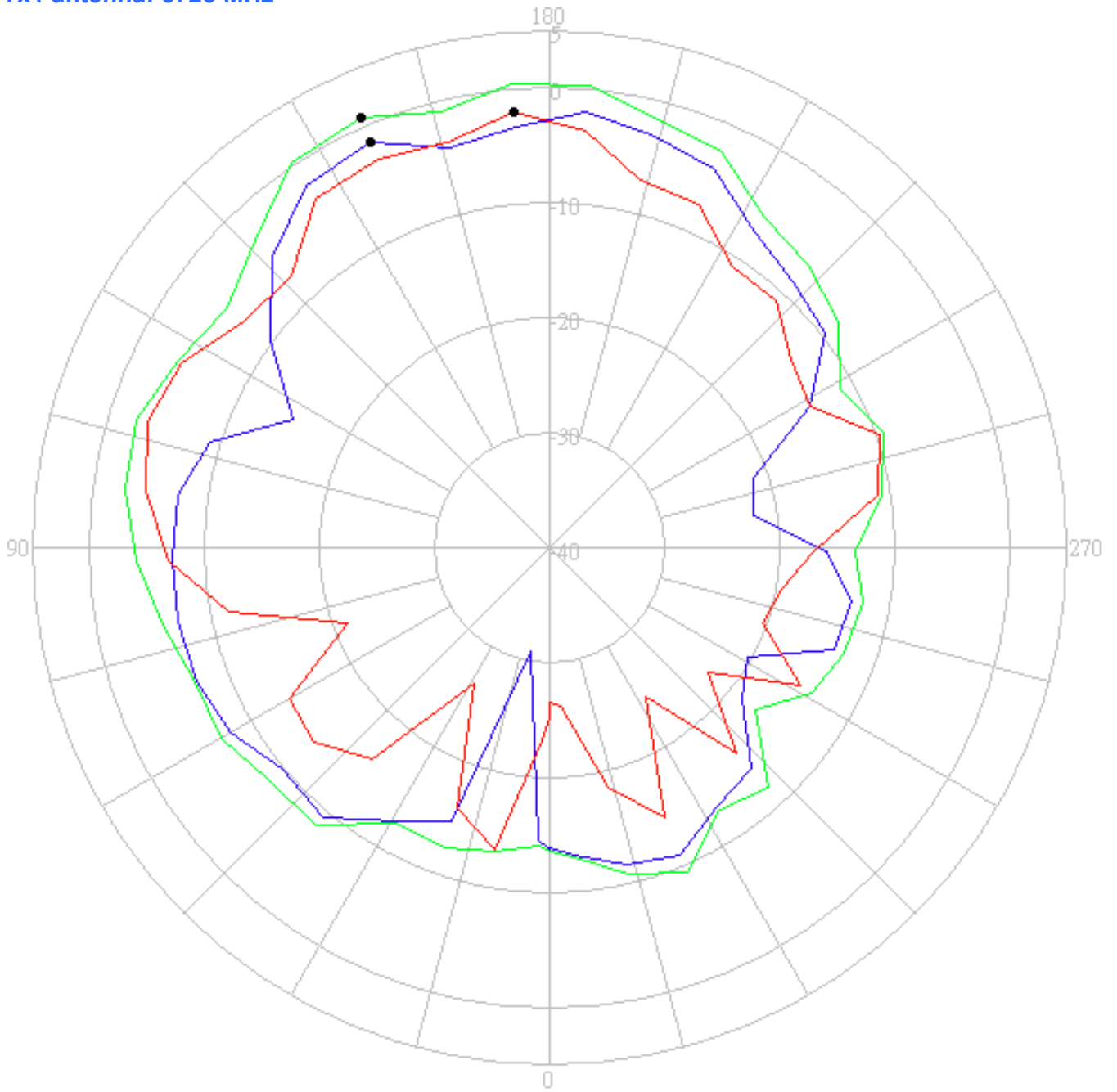
| | |
|-----------------------|-----------------|
| Center Frequency | 5470 MHz |
| Horizontal (dBi) Peak | -0.44 |
| Vertical (dBi) Peak | -2.94 |

Tx1 antenna: 5600 MHz



- Horizontal
- Vertical
- H + V

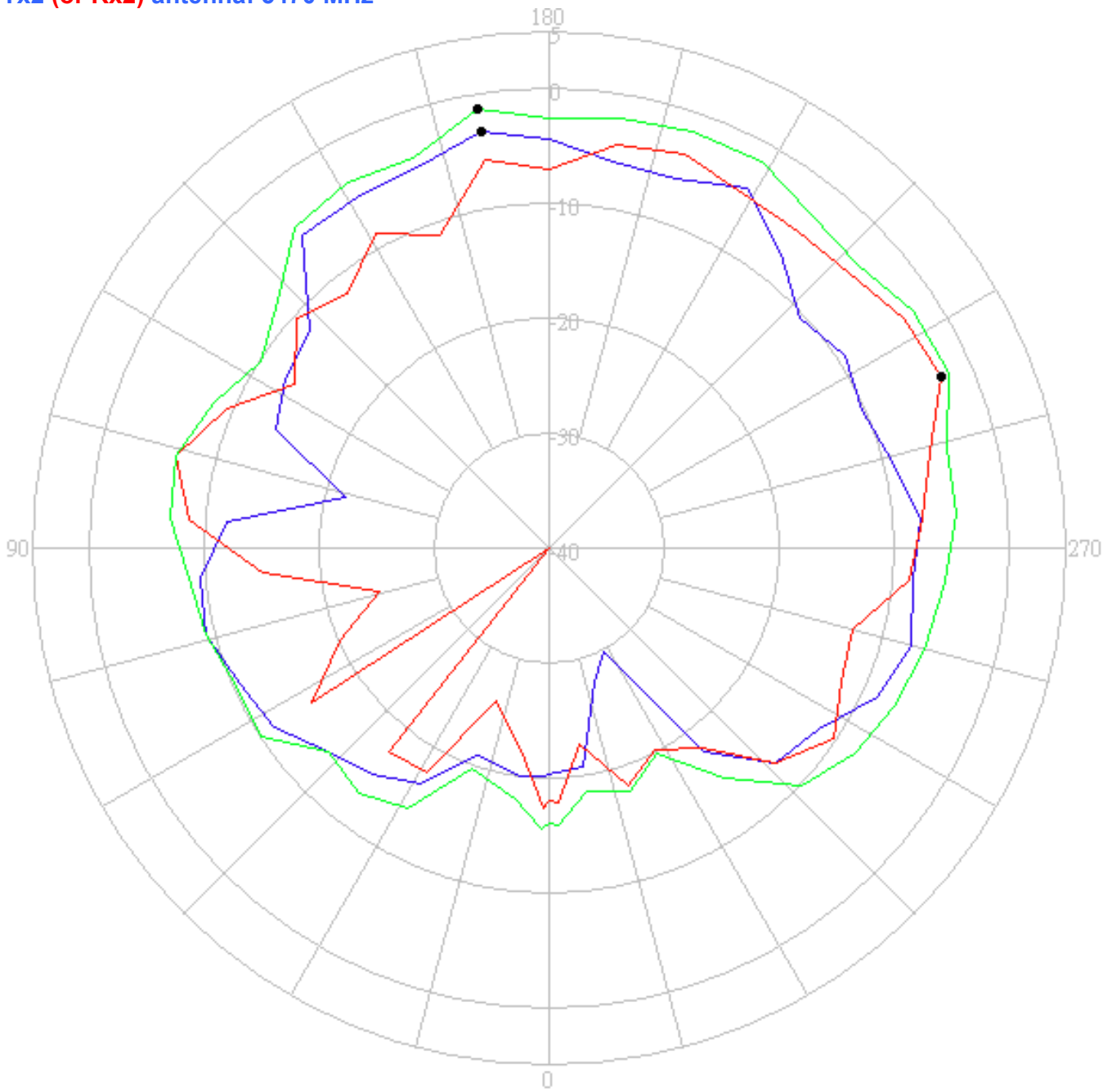
| | |
|-----------------------|-----------------|
| Center Frequency | 5600 MHz |
| Horizontal (dBi) Peak | -1.40 |
| Vertical (dBi) Peak | -2.11 |



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) Peak | -1.39 |
| Vertical (dBi) Peak | -1.98 |

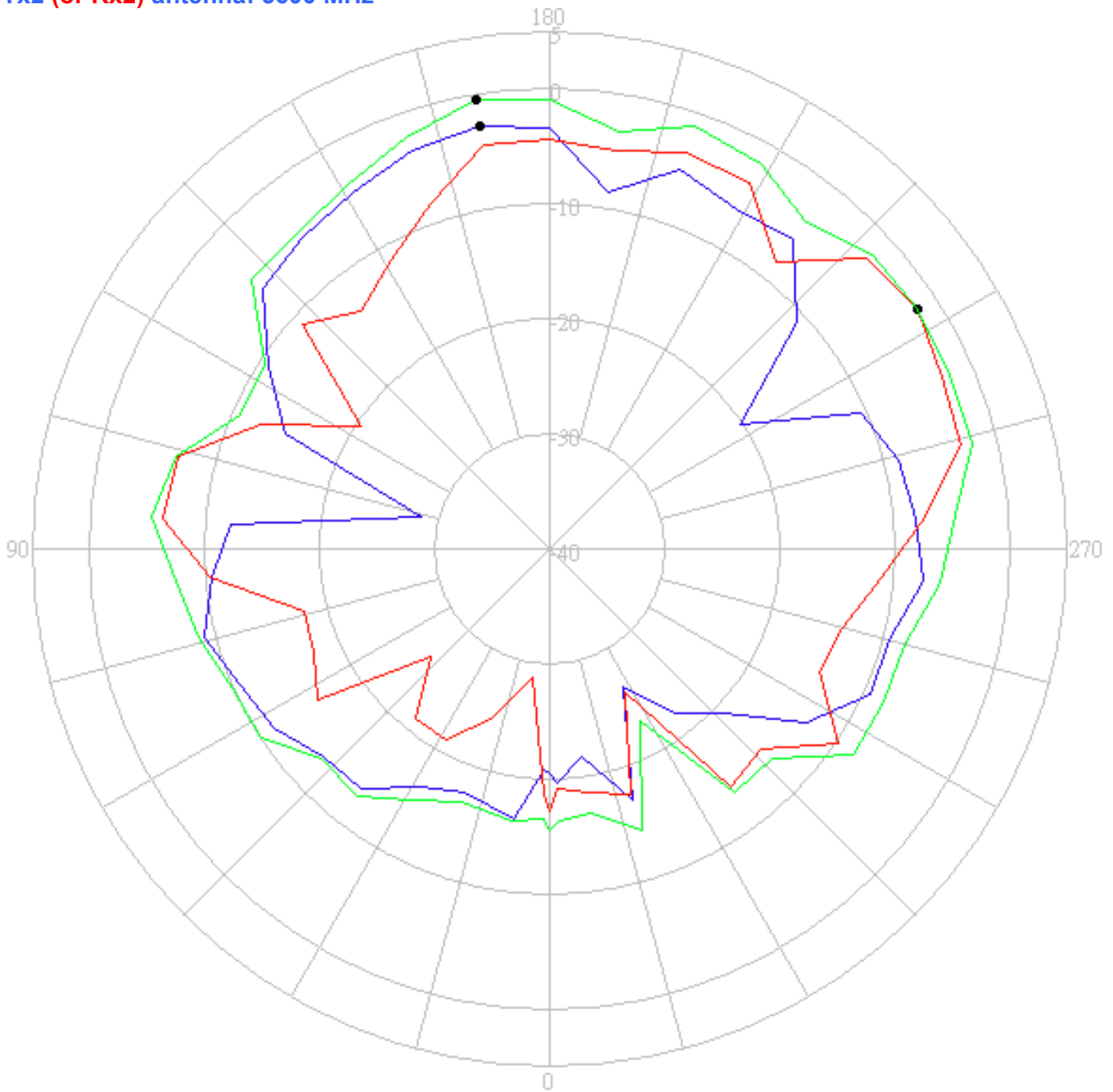
Tx2 (or Rx2) antenna: 5470 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5470 MHz |
| Horizontal (dBi) Peak | -3.21 |
| Vertical (dBi) Peak | -2.77 |

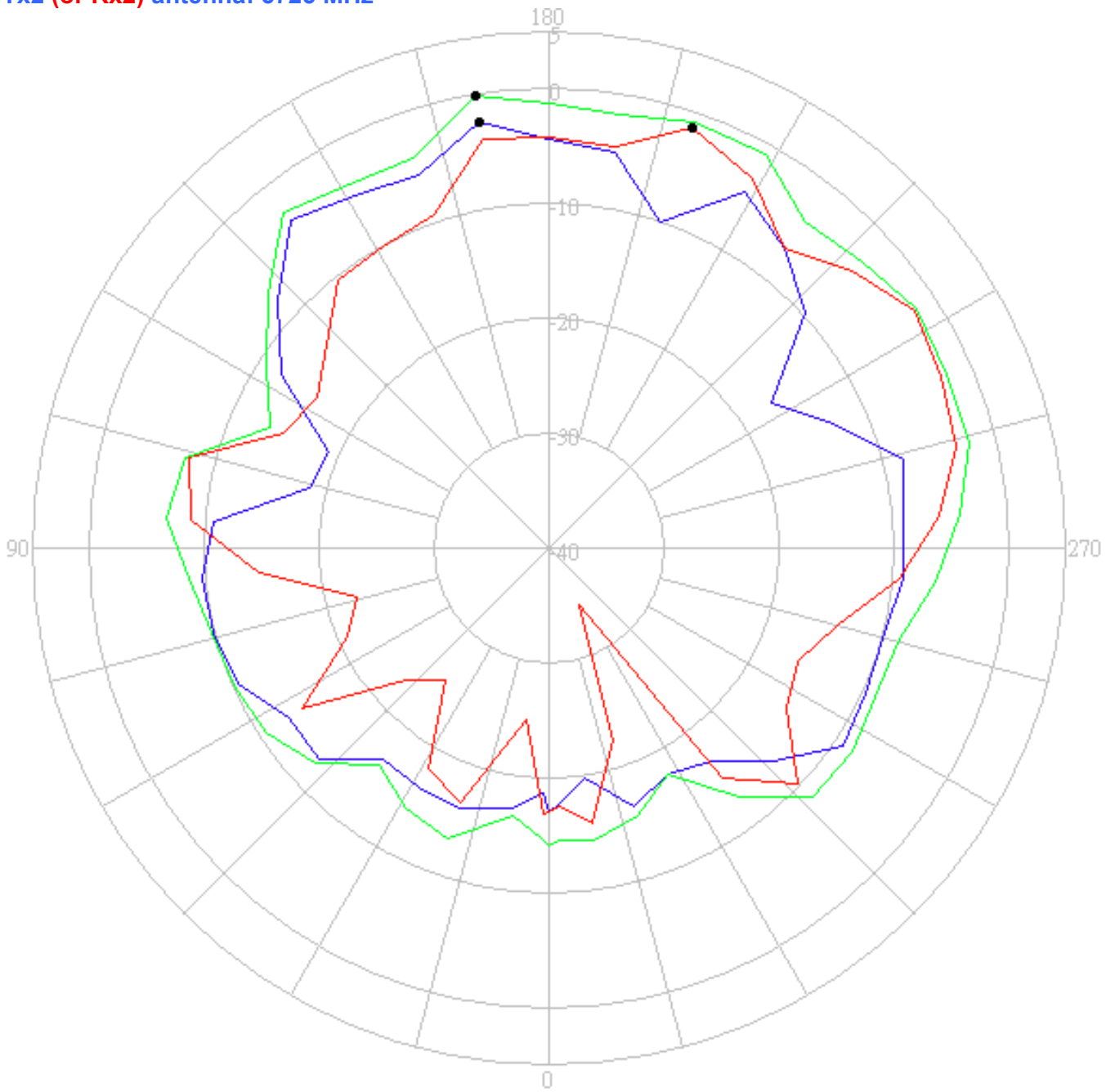
Tx2 (or Rx2) antenna: 5600 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5600 MHz |
| Horizontal (dBi) Peak | -2.69 |
| Vertical (dBi) Peak | -1.88 |

Tx2 (or Rx2) antenna: 5725 MHz

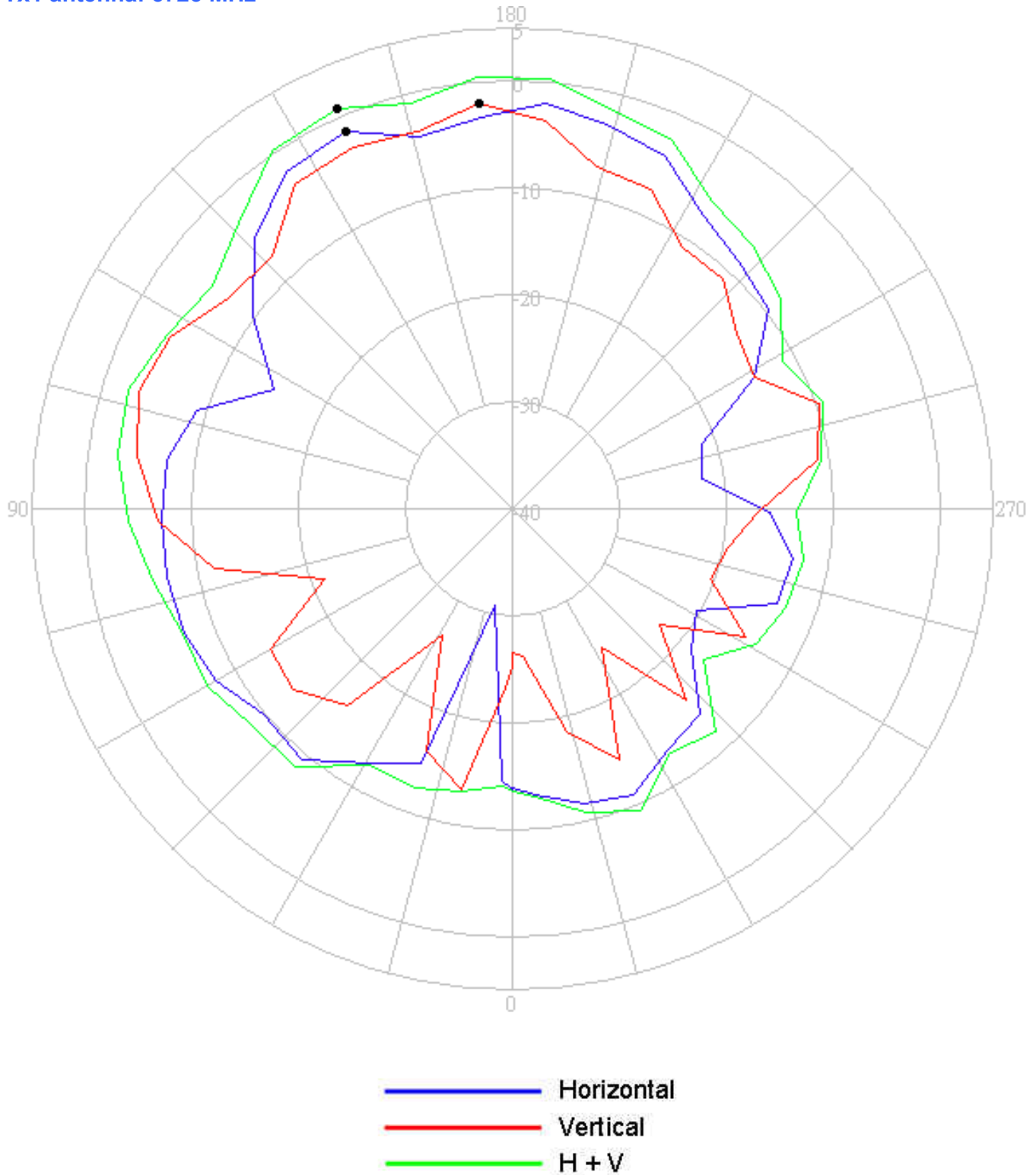


- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) Peak | -2.47 |
| Vertical (dBi) Peak | -1.34 |

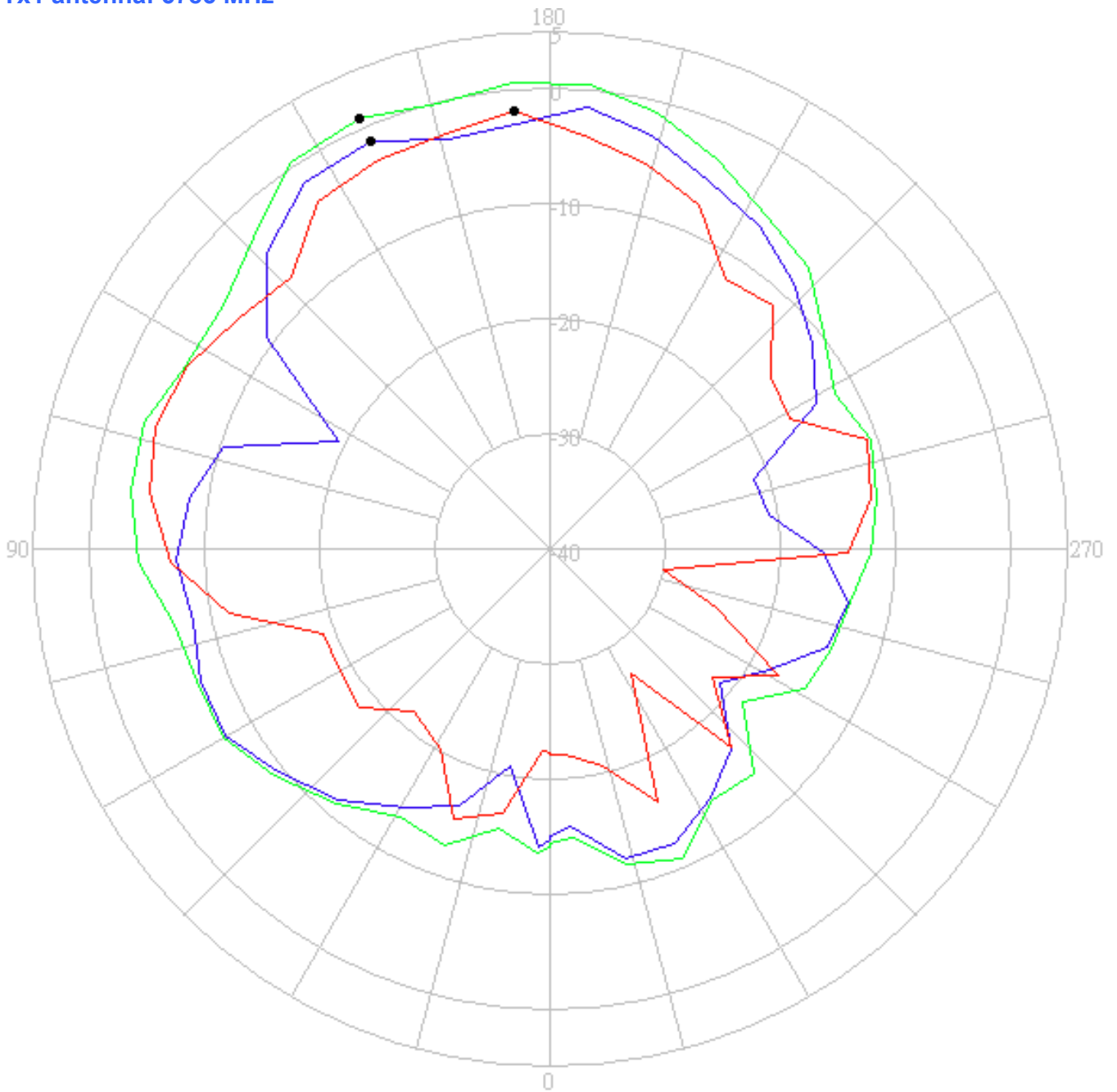
5725-5850 MHz radiation characteristic (Table Mode)

Tx1 antenna: 5725 MHz



| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) Peak | -1.39 |
| Vertical (dBi) Peak | -1.98 |

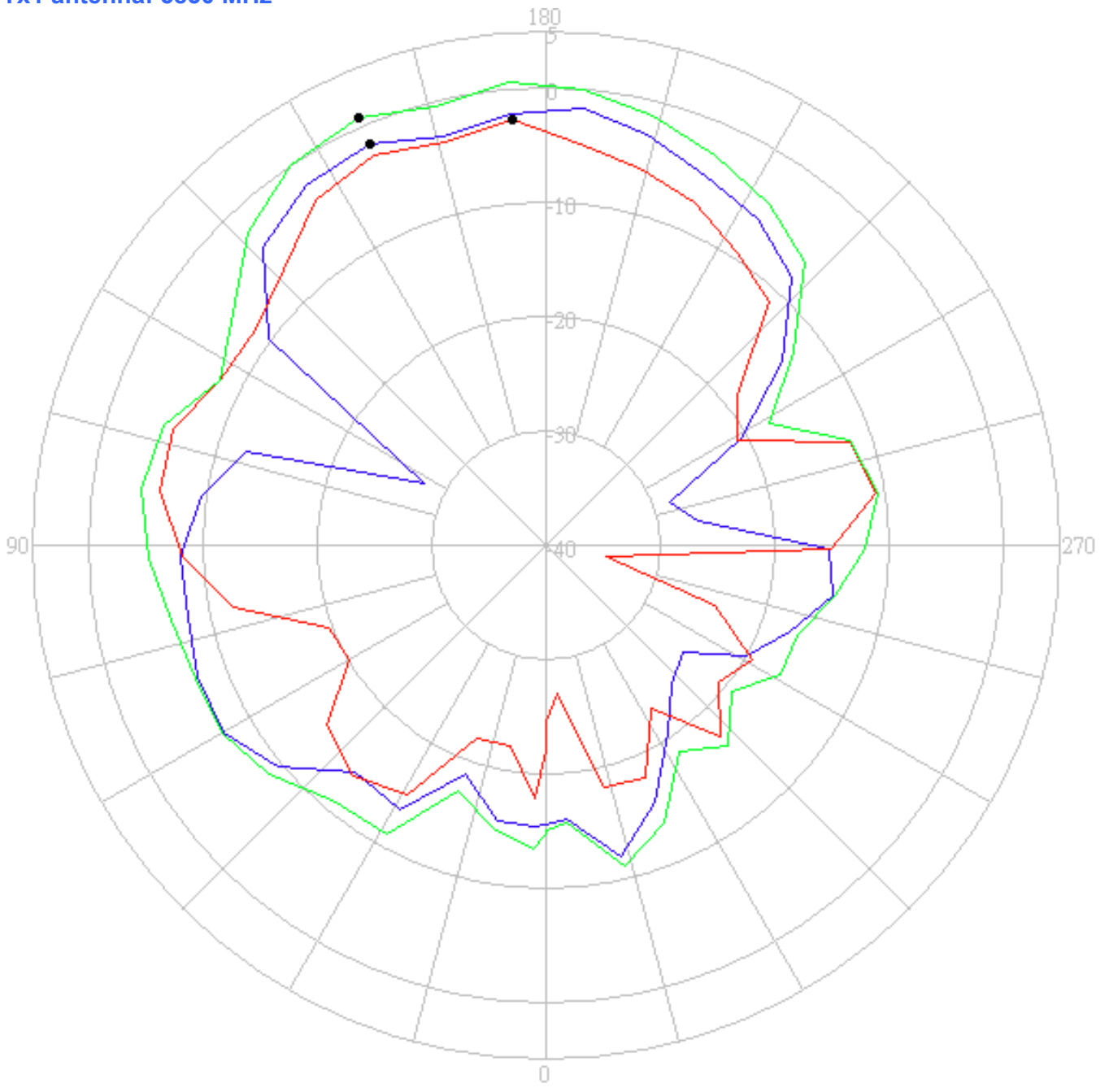
Tx1 antenna: 5785 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5785 MHz |
| Horizontal (dBi) Peak | -1.23 |
| Vertical (dBi) Peak | -1.74 |

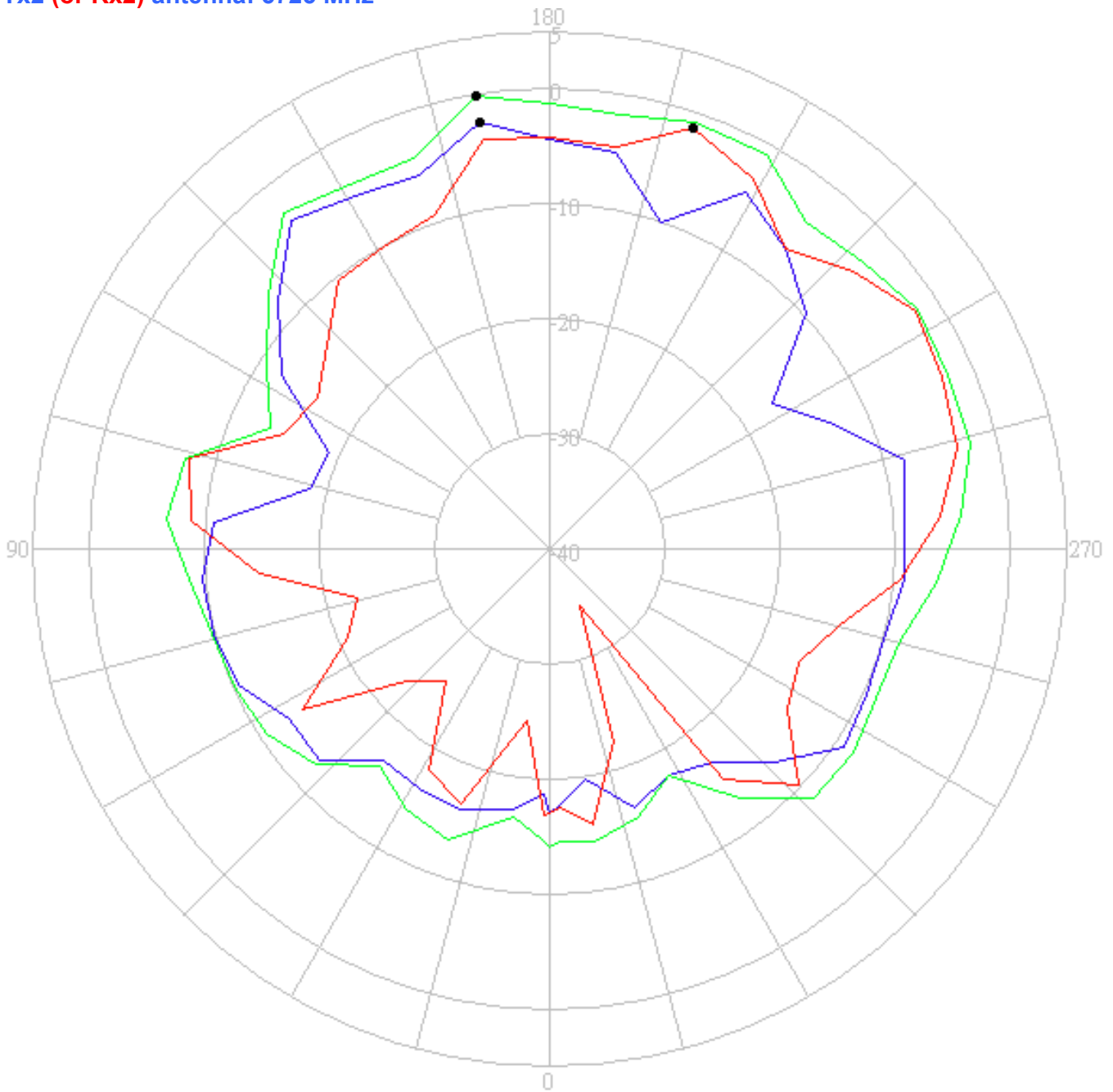
Tx1 antenna: 5850 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5850 MHz |
| Horizontal (dBi) Peak | -1.55 |
| Vertical (dBi) Peak | -2.54 |

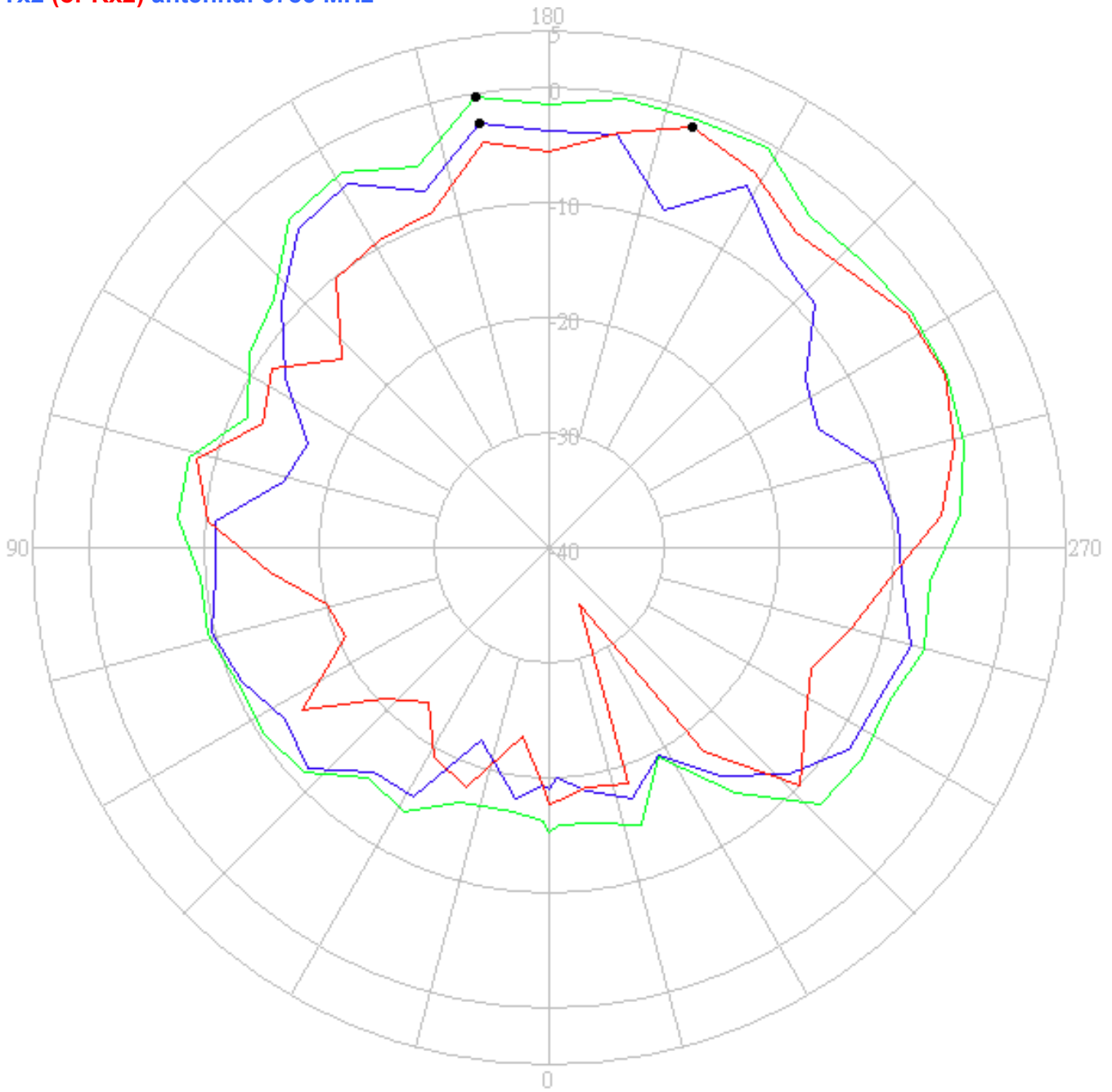
Tx2 (or Rx2) antenna: 5725 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5725 MHz |
| Horizontal (dBi) Peak | -2.47 |
| Vertical (dBi) Peak | -1.34 |

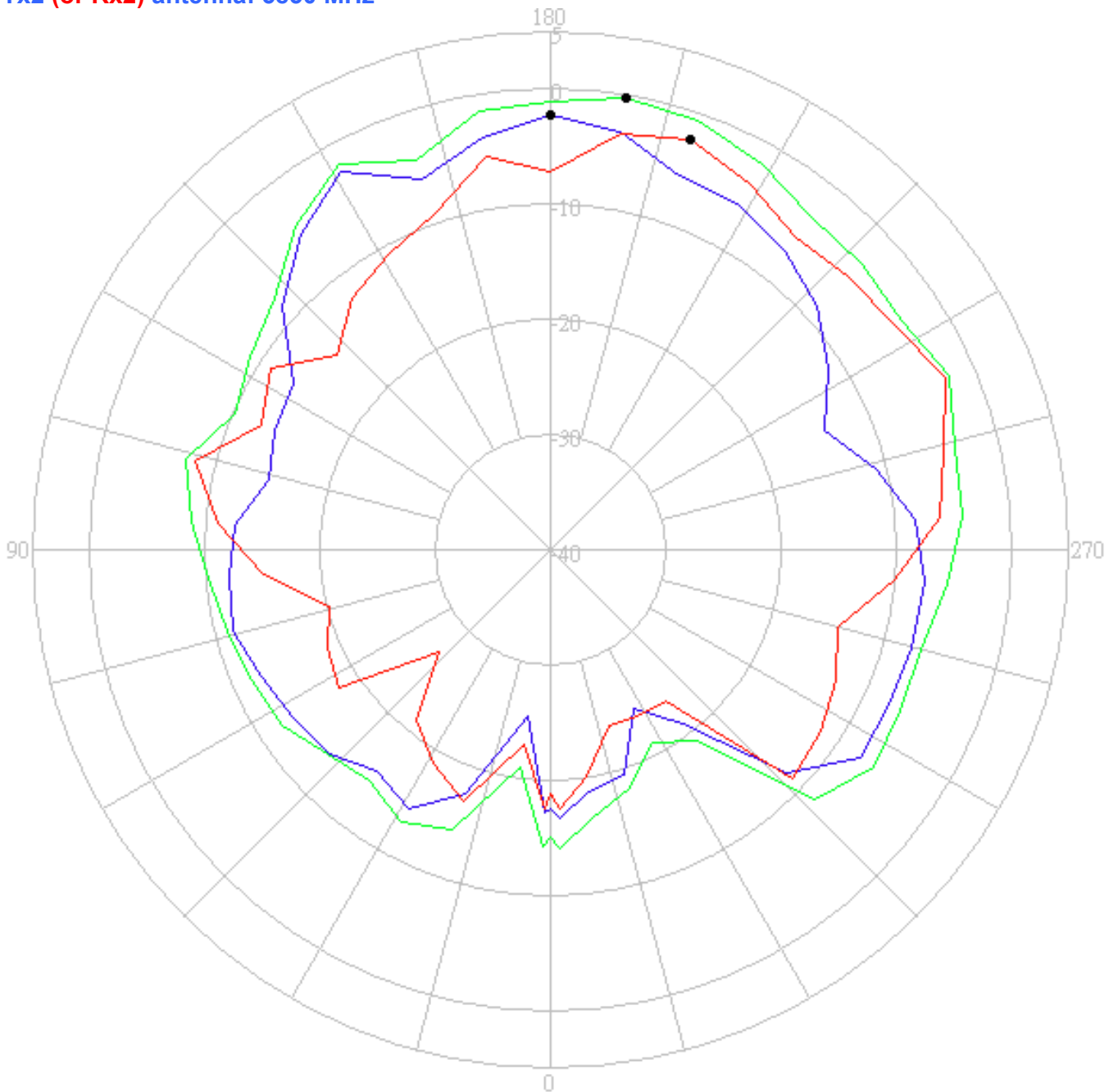
Tx2 (or Rx2) antenna: 5785 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5785 MHz |
| Horizontal (dBi) Peak | -2.57 |
| Vertical (dBi) Peak | -1.27 |

Tx2 (or Rx2) antenna: 5850 MHz



- Horizontal
- Vertical
- H + V

| | |
|-----------------------|-----------------|
| Center Frequency | 5850 MHz |
| Horizontal (dBi) Peak | -2.20 |
| Vertical (dBi) Peak | -2.32 |

Section 4. Host Platform Information

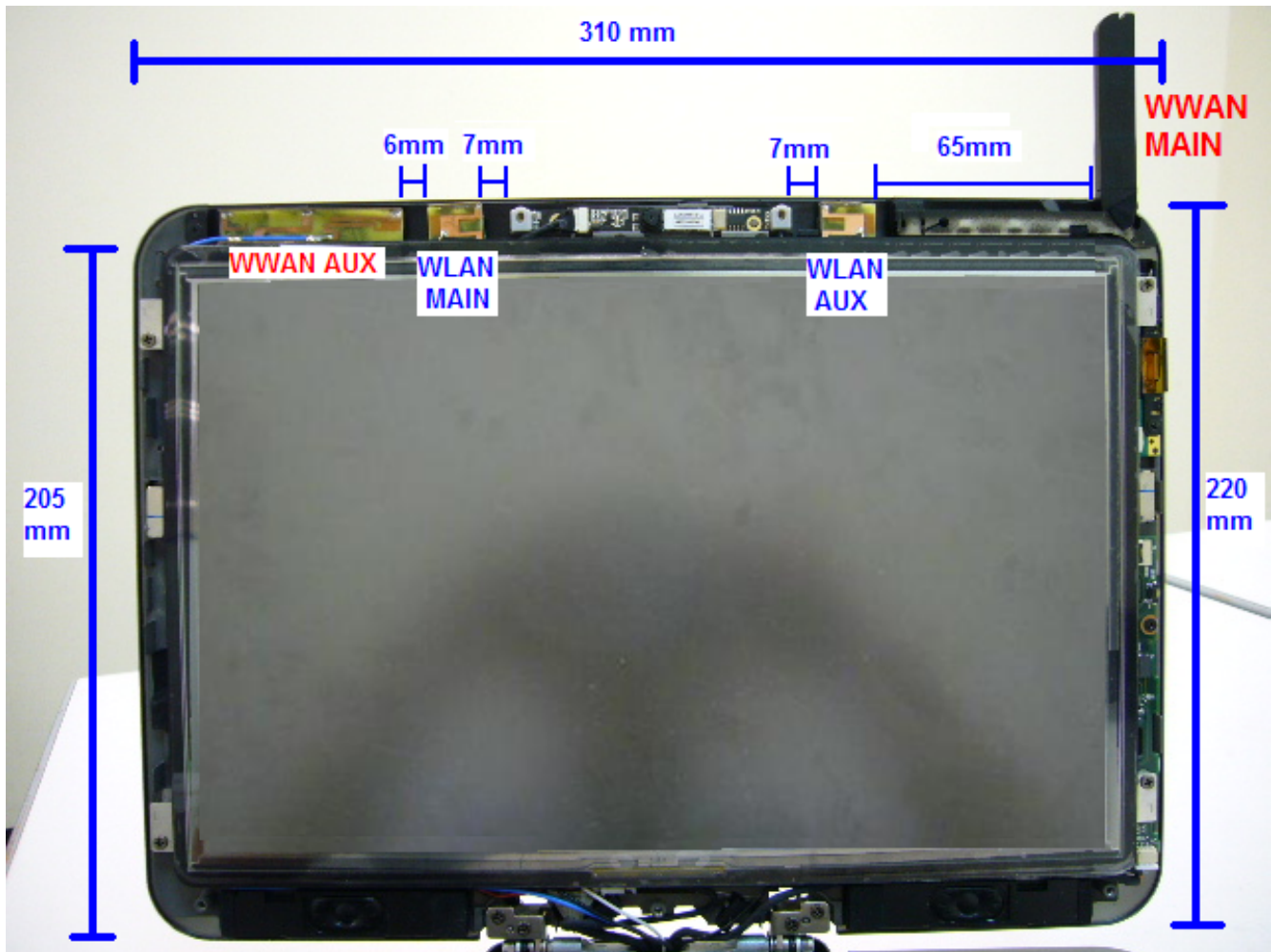
OEM / ODM Host platform: **INVENTEC LUKE Platform**

Rating Label Photo:



Section 5. Antenna Host Platform Location Information

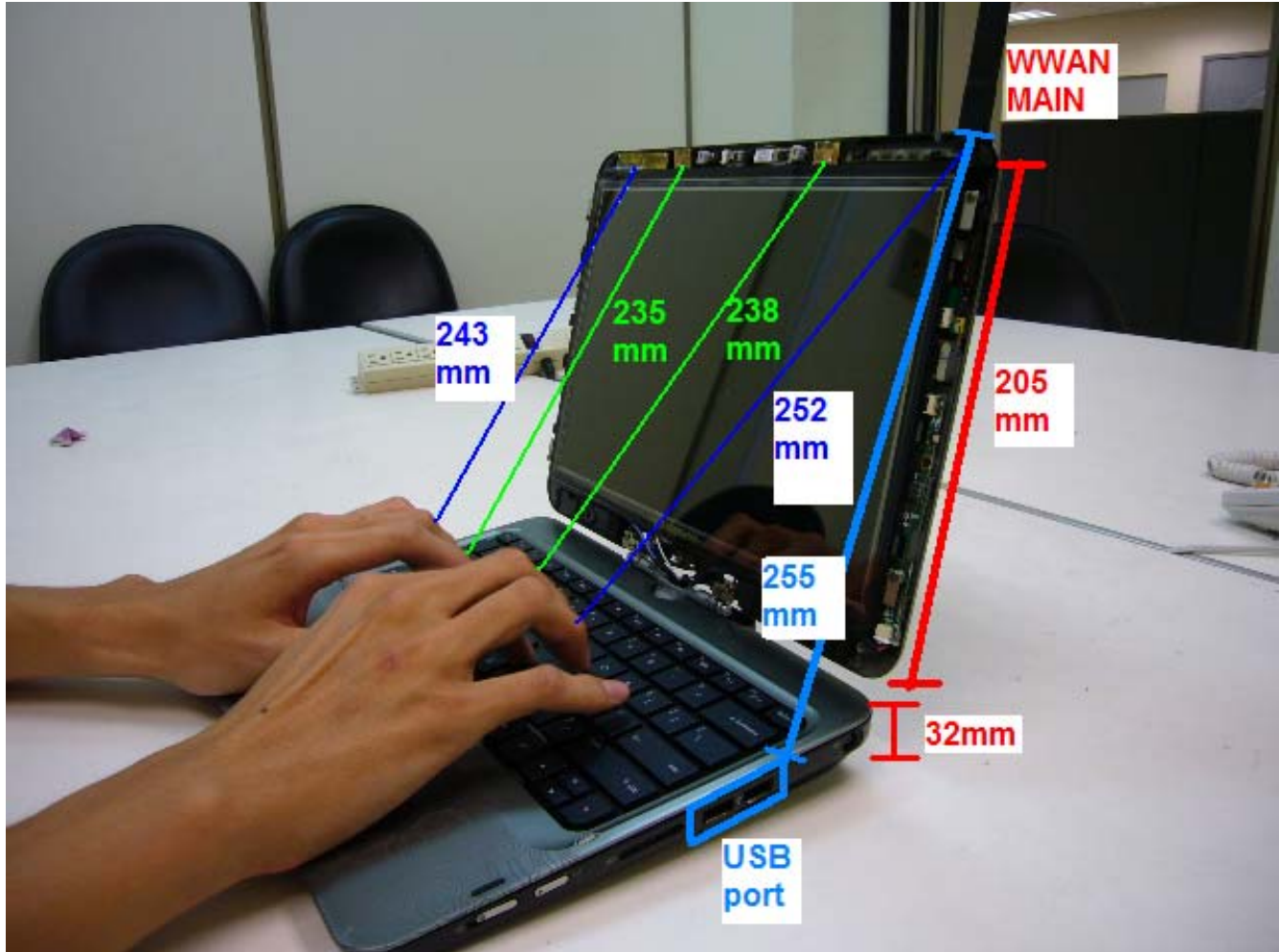
Include a dimensioned photos or dimensioned drawings of main and auxiliary antenna placements.



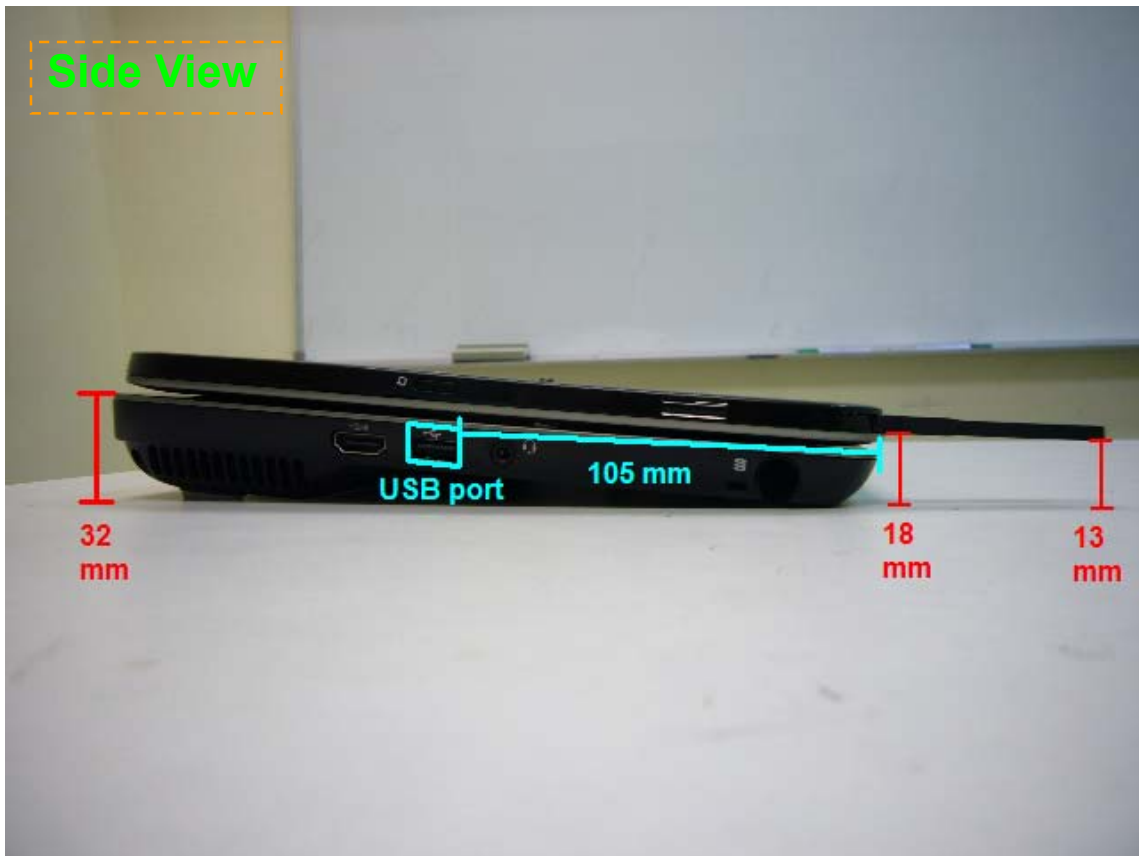
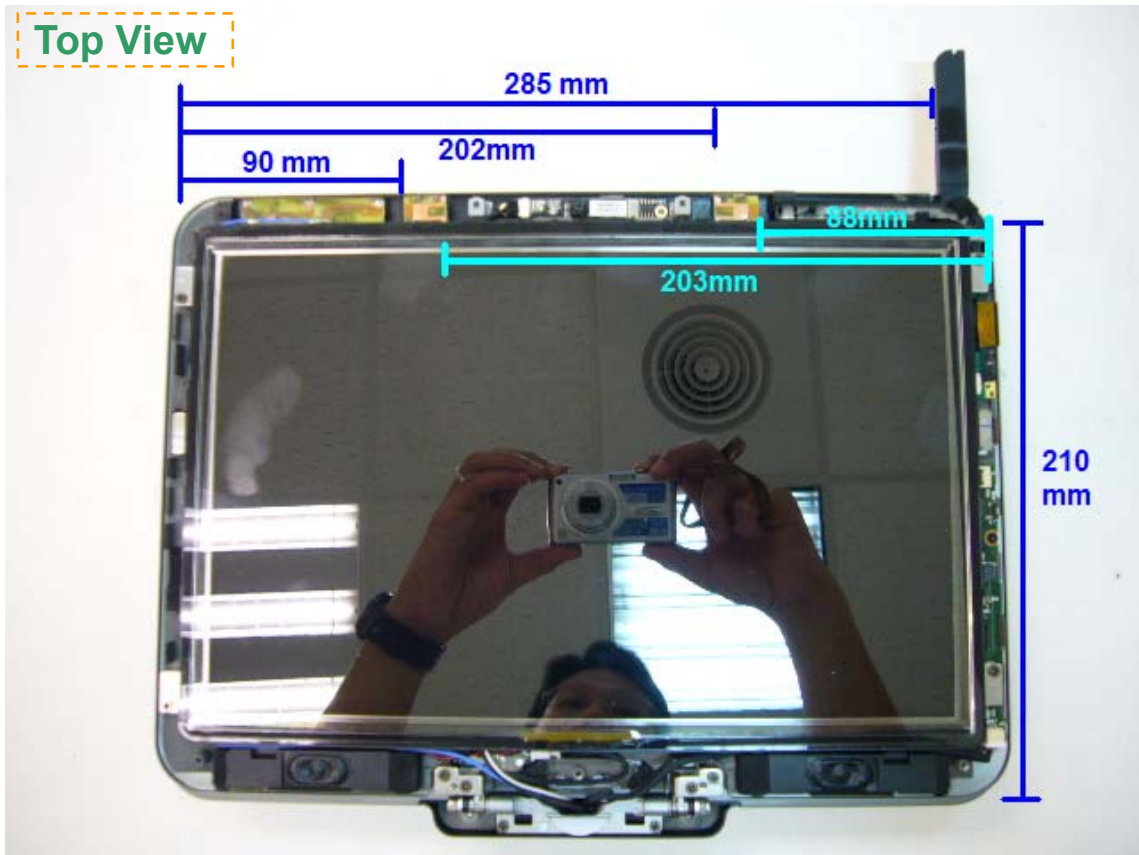
Section 6. Antenna dimensional information for SAR evaluation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between the transmit antennas and the user (excluding hands, wrist, feet, lap/ thigh, and ankle)

Laptop mode:



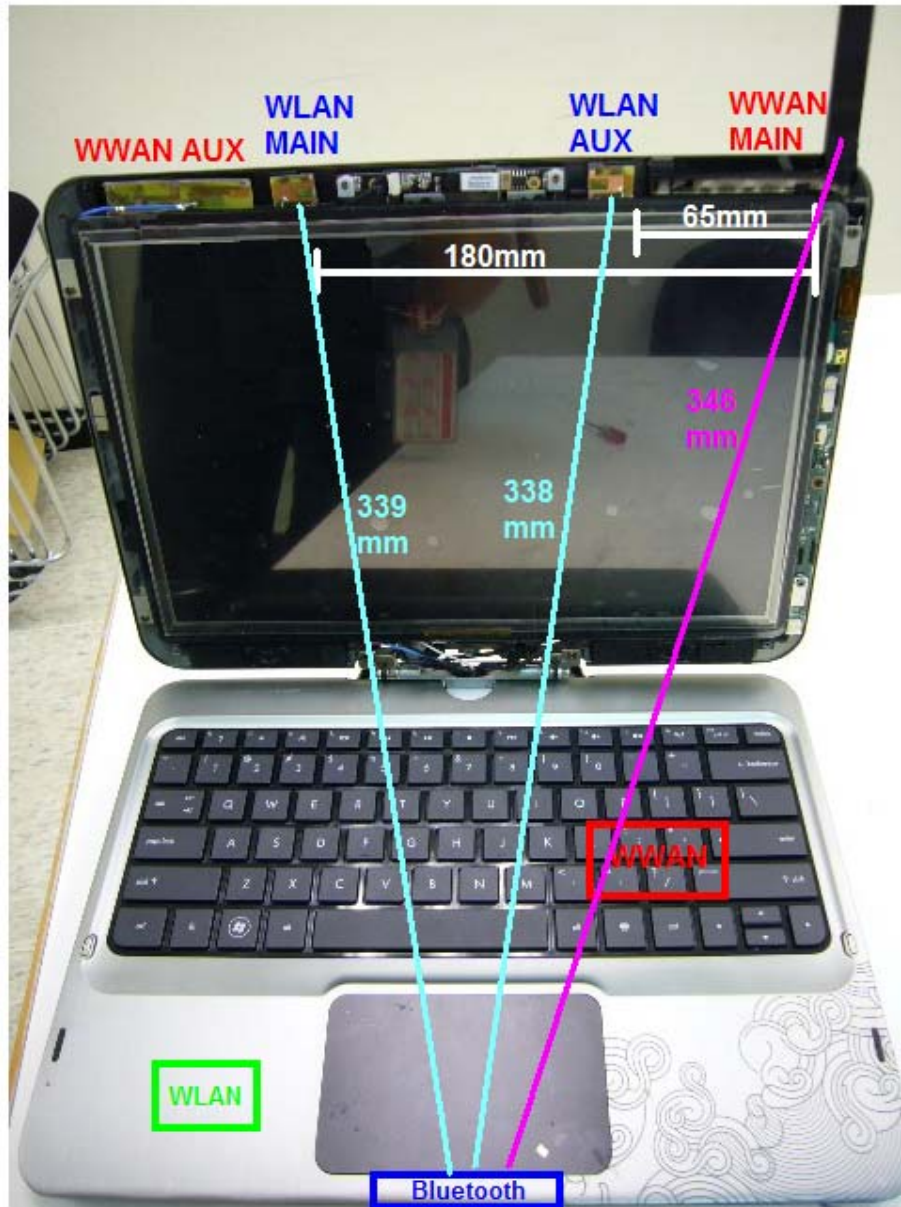
Tablet Mode:



Section 7. Diagram Example of Co-Location Antenna Separation

Indicate distance between WLAN module antennas and Bluetooth/other radio antenna element.

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)



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 | | | | | | |
| Brazil | | | | | | |
| Indonesia | | | | | | |
| Israel | | | | | | |
| Malaysia | | | | | | |
| Mexico | | | | | | |
| Singapore | | | | | | Telecommunication Equipment Dealer License Required |
| South Africa | | | | | | |
| USA, Canada | | | | | | |