

# 2J4H85Pe

**4× 5GNR MIMO and 4× 2.4/5.0/6.0 GHz ISM MIMO**  
**Adhesive Mount**

## Key Features

### Cable 1 - 4: 5GNR

- 617-960 MHz
- 1427-2690 MHz
- 3300-5000 MHz
- 5150-5925 MHz

### Cable 5 - 8: 2.4/5.0/6.0 GHz ISM

- 2410-2490 MHz
- 4920-7125 MHz

Adhesive Mount

High Performance

Low Profile

Ground Plane Independent

Customizable Cable and Connector

Dimensions: 198 x 127 x 15.7 mm

Certificates: IP67, IP69



## 1. Antenna and electrical specifications

Cable 1

| Parameters           | 5G NR Antenna                                                                                       |                                                                                                                                                                                 |                                 |                      |
|----------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|
| Technologies         | 5G, 4G, 3G and 2G                                                                                   |                                                                                                                                                                                 |                                 |                      |
| Standards            | 5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G                                   |                                                                                                                                                                                 |                                 |                      |
| Frequency (MHz)      | 617-960                                                                                             | 1427-2690                                                                                                                                                                       | 3300-5000                       | 5150-5925            |
| Band (MHz)           | 600, 700, 850, 900                                                                                  | 1500, 1600, 1700, 1800,<br>1900, 2000, 2100, 2300,<br>2500, 2600                                                                                                                | 3300, 3500, 3600,<br>3700, 4500 | 5200, 5500, 5800     |
| 5G NR Bands          | n5, n8, 12, n20, n28, n71,<br>n81, n82, n83,                                                        | n1, n2, n3, n7, n25, n34,<br>n38, n39, n40, n41, n50,<br>n51, n66, n70, n74, n75,<br>n76, n80, n84, n86                                                                         | n77, n78, n79                   |                      |
| 4G LTE Bands         | B5, B6, B8, B12, B13, B14,<br>B17, B18, B19, B20, B26,<br>B27, B28, B29, B44, B67,<br>B68, B71, B85 | B1, B2, B3, B4, B7, B9,<br>B10, B11, B21, B23, B24,<br>B25, B30, B32, B33, B34,<br>B35, B36, B37, B38, B39,<br>B40, B41, B45, B50, B51,<br>B65, B66, B69, B70, B74,<br>B75, B76 | B22, B42, B43, B48,<br>B49, B52 | B46, B47, B252, B255 |
| 3G CELL Bands        | B5, B6, B8, B12, B13, B14,<br>B19, B20, B26                                                         | B1, B2, B3, B4, B7, B9,<br>B10, B11, B21, B25, B32,<br>B33, B34, B35, B36, B37,<br>B38, B39, B40                                                                                | B22                             |                      |
| 2G CELL Bands        | 710, 750, 810T, 850, 900P,<br>900E, 900R                                                            | 1800DCS, 1900PCS                                                                                                                                                                |                                 |                      |
| CDMA CELL Bands      | BC0, BC2, BC3, BC7, BC9,<br>BC10, BC12, BC18, BC19                                                  | BC1, BC4, BC6, BC8,<br>BC13, BC14, BC15, BC16,<br>BC20, BC21                                                                                                                    |                                 |                      |
| Return Loss (dB)     | ~-13.2                                                                                              | ~-15.7                                                                                                                                                                          | ~-12.6                          | ~-11.6               |
| VSWR                 | ~1.6:1                                                                                              | ~1.6:1                                                                                                                                                                          | ~1.7:1                          | ~1.8:1               |
| Efficiency (%)       | ~55.2                                                                                               | ~46.9                                                                                                                                                                           | ~30.4                           | ~26.3                |
| Peak Gain (dBi)      | ~3.1                                                                                                | ~4.5                                                                                                                                                                            | ~2.0                            | ~0.9                 |
| Average Gain (dB)    | ~-2.6                                                                                               | ~-3.3                                                                                                                                                                           | ~-5.2                           | ~-5.8                |
| Impedance (Ohm)      | 50                                                                                                  |                                                                                                                                                                                 |                                 |                      |
| Polarisation         | Linear                                                                                              |                                                                                                                                                                                 |                                 |                      |
| Radiation Pattern    | Omni-Directional                                                                                    |                                                                                                                                                                                 |                                 |                      |
| Max. Input Power (W) | 25                                                                                                  |                                                                                                                                                                                 |                                 |                      |
| Connector Type       | SMA-Male Standard (Other Connectors Available)                                                      |                                                                                                                                                                                 |                                 |                      |
| Cable Length         | 300 cm Standard (Any Cable Length Available)                                                        |                                                                                                                                                                                 |                                 |                      |
| Cable Type           | D302 Standard (Other Cables Available)                                                              |                                                                                                                                                                                 |                                 |                      |

Cable 2

| Parameters           | 5G NR Antenna                                                                                       |                                                                                                                                                                                 |                                 |                      |
|----------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|
| Technologies         | 5G, 4G, 3G and 2G                                                                                   |                                                                                                                                                                                 |                                 |                      |
| Standards            | 5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G                                   |                                                                                                                                                                                 |                                 |                      |
| Frequency (MHz)      | 617-960                                                                                             | 1427-2690                                                                                                                                                                       | 3300-5000                       | 5150-5925            |
| Band (MHz)           | 600, 700, 850, 900                                                                                  | 1500, 1600, 1700, 1800,<br>1900, 2000, 2100, 2300,<br>2500, 2600                                                                                                                | 3300, 3500, 3600,<br>3700, 4500 | 5200, 5500, 5800     |
| 5G NR Bands          | n5, n8, 12, n20, n28, n71,<br>n81, n82, n83,                                                        | n1, n2, n3, n7, n25, n34,<br>n38, n39, n40, n41, n50,<br>n51, n66, n70, n74, n75,<br>n76, n80, n84, n86                                                                         | n77, n78, n79                   |                      |
| 4G LTE Bands         | B5, B6, B8, B12, B13, B14,<br>B17, B18, B19, B20, B26,<br>B27, B28, B29, B44, B67,<br>B68, B71, B85 | B1, B2, B3, B4, B7, B9,<br>B10, B11, B21, B23, B24,<br>B25, B30, B32, B33, B34,<br>B35, B36, B37, B38, B39,<br>B40, B41, B45, B50, B51,<br>B65, B66, B69, B70, B74,<br>B75, B76 | B22, B42, B43, B48,<br>B49, B52 | B46, B47, B252, B255 |
| 3G CELL Bands        | B5, B6, B8, B12, B13, B14,<br>B19, B20, B26                                                         | B1, B2, B3, B4, B7, B9,<br>B10, B11, B21, B25, B32,<br>B33, B34, B35, B36, B37,<br>B38, B39, B40                                                                                | B22                             |                      |
| 2G CELL Bands        | 710, 750, 810T, 850, 900P,<br>900E, 900R                                                            | 1800DCS, 1900PCS                                                                                                                                                                |                                 |                      |
| CDMA CELL Bands      | BC0, BC2, BC3, BC7, BC9,<br>BC10, BC12, BC18, BC19                                                  | BC1, BC4, BC6, BC8,<br>BC13, BC14, BC15, BC16,<br>BC20, BC21                                                                                                                    |                                 |                      |
| Return Loss (dB)     | ~-14.6                                                                                              | ~-15.4                                                                                                                                                                          | ~-15.6                          | ~-15.7               |
| VSWR                 | ~1.5:1                                                                                              | ~1.5:1                                                                                                                                                                          | ~1.5:1                          | ~1.4:1               |
| Efficiency (%)       | ~55.1                                                                                               | ~46.9                                                                                                                                                                           | ~35.7                           | ~34.0                |
| Peak Gain (dBi)      | ~3.3                                                                                                | ~3.6                                                                                                                                                                            | ~3.1                            | ~2.9                 |
| Average Gain (dB)    | ~-2.6                                                                                               | ~-3.3                                                                                                                                                                           | ~-4.5                           | ~-4.7                |
| Impedance (Ohm)      | 50                                                                                                  |                                                                                                                                                                                 |                                 |                      |
| Polarisation         | Linear                                                                                              |                                                                                                                                                                                 |                                 |                      |
| Radiation Pattern    | Omni-Directional                                                                                    |                                                                                                                                                                                 |                                 |                      |
| Max. Input Power (W) | 25                                                                                                  |                                                                                                                                                                                 |                                 |                      |
| Connector Type       | SMA-Male Standard (Other Connectors Available)                                                      |                                                                                                                                                                                 |                                 |                      |
| Cable Length         | 300 cm Standard (Any Cable Length Available)                                                        |                                                                                                                                                                                 |                                 |                      |
| Cable Type           | D302 Standard (Other Cables Available)                                                              |                                                                                                                                                                                 |                                 |                      |

**Cable 3**

| Parameters           | 5G NR Antenna                                                                                       |                                                                                                                                                                                 |                                 |                      |
|----------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|
| Technologies         | 5G, 4G, 3G and 2G                                                                                   |                                                                                                                                                                                 |                                 |                      |
| Standards            | 5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G                                   |                                                                                                                                                                                 |                                 |                      |
| Frequency (MHz)      | 617-960                                                                                             | 1427-2690                                                                                                                                                                       | 3300-5000                       | 5150-5925            |
| Band (MHz)           | 600, 700, 850, 900                                                                                  | 1500, 1600, 1700, 1800,<br>1900, 2000, 2100, 2300,<br>2500, 2600                                                                                                                | 3300, 3500, 3600,<br>3700, 4500 | 5200, 5500, 5800     |
| 5G NR Bands          | n5, n8, 12, n20, n28, n71,<br>n81, n82, n83,                                                        | n1, n2, n3, n7, n25, n34,<br>n38, n39, n40, n41, n50,<br>n51, n66, n70, n74, n75,<br>n76, n80, n84, n86                                                                         | n77, n78, n79                   |                      |
| 4G LTE Bands         | B5, B6, B8, B12, B13, B14,<br>B17, B18, B19, B20, B26,<br>B27, B28, B29, B44, B67,<br>B68, B71, B85 | B1, B2, B3, B4, B7, B9,<br>B10, B11, B21, B23, B24,<br>B25, B30, B32, B33, B34,<br>B35, B36, B37, B38, B39,<br>B40, B41, B45, B50, B51,<br>B65, B66, B69, B70, B74,<br>B75, B76 | B22, B42, B43, B48,<br>B49, B52 | B46, B47, B252, B255 |
| 3G CELL Bands        | B5, B6, B8, B12, B13, B14,<br>B19, B20, B26                                                         | B1, B2, B3, B4, B7, B9,<br>B10, B11, B21, B25, B32,<br>B33, B34, B35, B36, B37,<br>B38, B39, B40                                                                                | B22                             |                      |
| 2G CELL Bands        | 710, 750, 810T, 850, 900P,<br>900E, 900R                                                            | 1800DCS, 1900PCS                                                                                                                                                                |                                 |                      |
| CDMA CELL Bands      | BC0, BC2, BC3, BC7, BC9,<br>BC10, BC12, BC18, BC19                                                  | BC1, BC4, BC6, BC8,<br>BC13, BC14, BC15, BC16,<br>BC20, BC21                                                                                                                    |                                 |                      |
| Return Loss (dB)     | ~-15.4                                                                                              | ~-14.3                                                                                                                                                                          | ~-13.7                          | ~-13.0               |
| VSWR                 | ~1.5:1                                                                                              | ~1.6:1                                                                                                                                                                          | ~1.7:1                          | ~1.7:1               |
| Efficiency (%)       | ~55.3                                                                                               | ~44.0                                                                                                                                                                           | ~29.7                           | ~27.5                |
| Peak Gain (dBi)      | ~3.5                                                                                                | ~3.4                                                                                                                                                                            | ~2.6                            | ~3.1                 |
| Average Gain (dB)    | ~-2.6                                                                                               | ~-3.6                                                                                                                                                                           | ~-5.4                           | ~-5.6                |
| Impedance (Ohm)      | 50                                                                                                  |                                                                                                                                                                                 |                                 |                      |
| Polarisation         | Linear                                                                                              |                                                                                                                                                                                 |                                 |                      |
| Radiation Pattern    | Omni-Directional                                                                                    |                                                                                                                                                                                 |                                 |                      |
| Max. Input Power (W) | 25                                                                                                  |                                                                                                                                                                                 |                                 |                      |
| Connector Type       | SMA-Male Standard (Other Connectors Available)                                                      |                                                                                                                                                                                 |                                 |                      |
| Cable Length         | 300 cm Standard (Any Cable Length Available)                                                        |                                                                                                                                                                                 |                                 |                      |
| Cable Type           | D302 Standard (Other Cables Available)                                                              |                                                                                                                                                                                 |                                 |                      |

**Cable 4**

| Parameters           | 5G NR Antenna                                                                                       |                                                                                                                                                                                 |                                 |                      |
|----------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|
| Technologies         | 5G, 4G, 3G and 2G                                                                                   |                                                                                                                                                                                 |                                 |                      |
| Standards            | 5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G                                   |                                                                                                                                                                                 |                                 |                      |
| Frequency (MHz)      | 617-960                                                                                             | 1427-2690                                                                                                                                                                       | 3300-5000                       | 5150-5925            |
| Band (MHz)           | 600, 700, 850, 900                                                                                  | 1500, 1600, 1700, 1800,<br>1900, 2000, 2100, 2300,<br>2500, 2600                                                                                                                | 3300, 3500, 3600,<br>3700, 4500 | 5200, 5500, 5800     |
| 5G NR Bands          | n5, n8, 12, n20, n28, n71,<br>n81, n82, n83,                                                        | n1, n2, n3, n7, n25, n34,<br>n38, n39, n40, n41, n50,<br>n51, n66, n70, n74, n75,<br>n76, n80, n84, n86                                                                         | n77, n78, n79                   |                      |
| 4G LTE Bands         | B5, B6, B8, B12, B13, B14,<br>B17, B18, B19, B20, B26,<br>B27, B28, B29, B44, B67,<br>B68, B71, B85 | B1, B2, B3, B4, B7, B9,<br>B10, B11, B21, B23, B24,<br>B25, B30, B32, B33, B34,<br>B35, B36, B37, B38, B39,<br>B40, B41, B45, B50, B51,<br>B65, B66, B69, B70, B74,<br>B75, B76 | B22, B42, B43, B48,<br>B49, B52 | B46, B47, B252, B255 |
| 3G CELL Bands        | B5, B6, B8, B12, B13, B14,<br>B19, B20, B26                                                         | B1, B2, B3, B4, B7, B9,<br>B10, B11, B21, B25, B32,<br>B33, B34, B35, B36, B37,<br>B38, B39, B40                                                                                | B22                             |                      |
| 2G CELL Bands        | 710, 750, 810T, 850, 900P,<br>900E, 900R                                                            | 1800DCS, 1900PCS                                                                                                                                                                |                                 |                      |
| CDMA CELL Bands      | BC0, BC2, BC3, BC7, BC9,<br>BC10, BC12, BC18, BC19                                                  | BC1, BC4, BC6, BC8,<br>BC13, BC14, BC15, BC16,<br>BC20, BC21                                                                                                                    |                                 |                      |
| Return Loss (dB)     | ~-15.2                                                                                              | ~-16.8                                                                                                                                                                          | ~-13.9                          | ~-12.5               |
| VSWR                 | ~1.5:1                                                                                              | ~1.4:1                                                                                                                                                                          | ~1.6:1                          | ~1.7:1               |
| Efficiency (%)       | ~57.1                                                                                               | ~48.4                                                                                                                                                                           | ~30.4                           | ~25.1                |
| Peak Gain (dBi)      | ~3.4                                                                                                | ~4.5                                                                                                                                                                            | ~2.5                            | ~1.2                 |
| Average Gain (dB)    | ~-2.4                                                                                               | ~-3.2                                                                                                                                                                           | ~-5.4                           | ~-6.2                |
| Impedance (Ohm)      | 50                                                                                                  |                                                                                                                                                                                 |                                 |                      |
| Polarisation         | Linear                                                                                              |                                                                                                                                                                                 |                                 |                      |
| Radiation Pattern    | Omni-Directional                                                                                    |                                                                                                                                                                                 |                                 |                      |
| Max. Input Power (W) | 25                                                                                                  |                                                                                                                                                                                 |                                 |                      |
| Connector Type       | SMA-Male Standard (Other Connectors Available)                                                      |                                                                                                                                                                                 |                                 |                      |
| Cable Length         | 300 cm Standard (Any Cable Length Available)                                                        |                                                                                                                                                                                 |                                 |                      |
| Cable Type           | D302 Standard (Other Cables Available)                                                              |                                                                                                                                                                                 |                                 |                      |

**Antenna Measurement Conditions:**

Mounted on Plastic Plate of 30 x 30 x 0.25 cm

100 cm of Cable D302

Measured in Certified CTIA 3D Anechoic Chamber

Cable 5

| Parameters           | 2.4/5.0/6.0 GHz ISM Antenna                        |           |           |
|----------------------|----------------------------------------------------|-----------|-----------|
| Standards            | WiFi, BT, ZigBee, ISM, <b>Sigfox</b> , <b>LoRa</b> |           |           |
| Band (MHz)           | 2.4GHz                                             | 5.0 GHz   | 6.0GHz    |
| Frequency (MHz)      | 2410-2490                                          | 4920-5925 | 5925-7125 |
| Return Loss (dB)     | ~-13.5                                             | ~-15.8    | ~-14.2    |
| VSWR                 | ~1.6:1                                             | ~1.5:1    | ~1.6:1    |
| Efficiency (%)       | ~30.8                                              | ~20.2     | ~47.2     |
| Peak Gain (dBi)      | ~4.5                                               | ~3.1      | ~3.8      |
| Average Gain (dB)    | ~-5.1                                              | ~-7.1     | ~-3.3     |
| Impedance (Ohm)      | 50                                                 |           |           |
| Polarisation         | Linear                                             |           |           |
| Radiation Pattern    | Omni-Directional                                   |           |           |
| Max. Input Power (W) | 25                                                 |           |           |
| Connector Type       | SMA-Male-RP Standard (Other Connectors Available)  |           |           |
| Cable Length         | 300 cm Standard (Any Cable Length Available)       |           |           |
| Cable Type           | D302 Standard (Other Cables Available)             |           |           |

Cable 6

| Parameters           | 2.4/5.0/6.0 GHz ISM Antenna                        |           |           |
|----------------------|----------------------------------------------------|-----------|-----------|
| Standards            | WiFi, BT, ZigBee, ISM, <b>Sigfox</b> , <b>LoRa</b> |           |           |
| Band (MHz)           | 2.4 GHz                                            | 5.0 GHz   | 6.0 GHz   |
| Frequency (MHz)      | 2410-2490                                          | 4920-5925 | 5925-7125 |
| Return Loss (dB)     | ~-11.9                                             | ~-13.2    | ~-11.8    |
| VSWR                 | ~1.9:1                                             | ~1.7:1    | ~1.9:1    |
| Efficiency (%)       | ~37.6                                              | ~23.0     | ~42.3     |
| Peak Gain (dBi)      | ~6.0                                               | ~5.0      | ~3.0      |
| Average Gain (dB)    | ~-4.3                                              | ~-6.5     | ~-3.8     |
| Impedance (Ohm)      | 50                                                 |           |           |
| Polarisation         | Linear                                             |           |           |
| Radiation Pattern    | Omni-Directional                                   |           |           |
| Max. Input Power (W) | 25                                                 |           |           |
| Connector Type       | SMA-Male-RP Standard (Other Connectors Available)  |           |           |
| Cable Length         | 300 cm Standard (Any Cable Length Available)       |           |           |
| Cable Type           | D302 Standard (Other Cables Available)             |           |           |

**Cable 7**

| Parameters           | 2.4/5.0/6.0 GHz ISM Antenna                       |           |           |
|----------------------|---------------------------------------------------|-----------|-----------|
| Standards            | WiFi, BT, ZigBee, ISM, <b>Sigfox, LoRa</b>        |           |           |
| Band (MHz)           | 2.4GHz                                            | 5.0 GHz   | 6.0GHz    |
| Frequency (MHz)      | 2410-2490                                         | 4920-5925 | 5925-7125 |
| Return Loss (dB)     | ~-19.2                                            | ~-14.8    | ~-13.4    |
| VSWR                 | ~1.3:1                                            | ~1.6:1    | ~1.6:1    |
| Efficiency (%)       | ~38.2                                             | ~34.3     | ~44.4     |
| Peak Gain (dBi)      | ~3.7                                              | ~2.3      | ~3.1      |
| Average Gain (dB)    | ~-4.2                                             | ~-4.7     | ~-3.5     |
| Impedance (Ohm)      | 50                                                |           |           |
| Polarisation         | Linear                                            |           |           |
| Radiation Pattern    | Omni-Directional                                  |           |           |
| Max. Input Power (W) | 25                                                |           |           |
| Connector Type       | SMA-Male-RP Standard (Other Connectors Available) |           |           |
| Cable Length         | 300 cm Standard (Any Cable Length Available)      |           |           |
| Cable Type           | D302 Standard (Other Cables Available)            |           |           |

**Cable 8**

| Parameters           | 2.4/5.0/6.0 GHz ISM Antenna                       |           |           |
|----------------------|---------------------------------------------------|-----------|-----------|
| Standards            | WiFi, BT, ZigBee, ISM, <b>Sigfox, LoRa</b>        |           |           |
| Band (MHz)           | 2.4 GHz                                           | 5.0 GHz   | 6.0 GHz   |
| Frequency (MHz)      | 2410-2490                                         | 4920-5925 | 5925-7125 |
| Return Loss (dB)     | ~-16.5                                            | ~-15.5    | ~-7.9     |
| VSWR                 | ~1.4:1                                            | ~1.5:1    | ~1.5:1    |
| Efficiency (%)       | ~36.3                                             | ~28.4     | ~39.4     |
| Peak Gain (dBi)      | ~4.4                                              | ~2.6      | ~3.1      |
| Average Gain (dB)    | ~-4.4                                             | ~-5.5     | ~-4.0     |
| Impedance (Ohm)      | 50                                                |           |           |
| Polarisation         | Linear                                            |           |           |
| Radiation Pattern    | Omni-Directional                                  |           |           |
| Max. Input Power (W) | 25                                                |           |           |
| Connector Type       | SMA-Male-RP Standard (Other Connectors Available) |           |           |
| Cable Length         | 300 cm Standard (Any Cable Length Available)      |           |           |
| Cable Type           | D302 Standard (Other Cables Available)            |           |           |

**Antenna Measurement Conditions:**

Mounted on Plastic Plate of 30 x 30 x 0.25 cm

100 cm of Cable D302

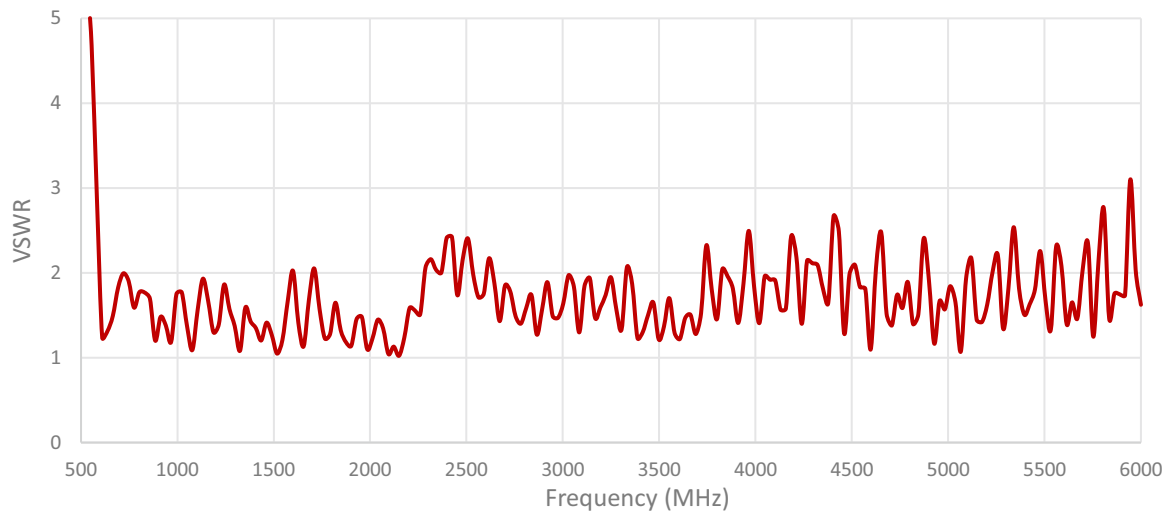
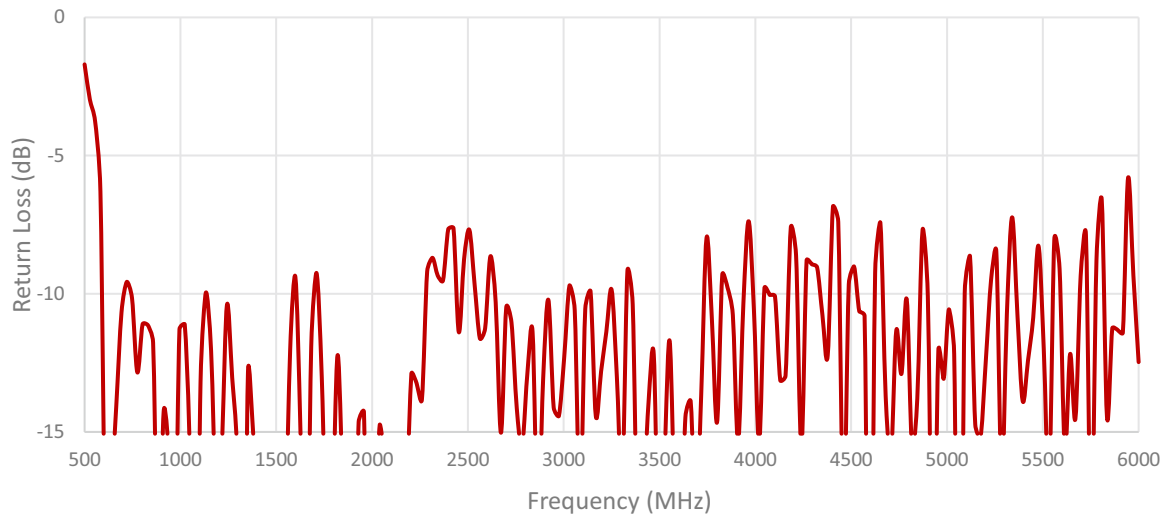
Measured in Certified CTIA 3D Anechoic Chamber

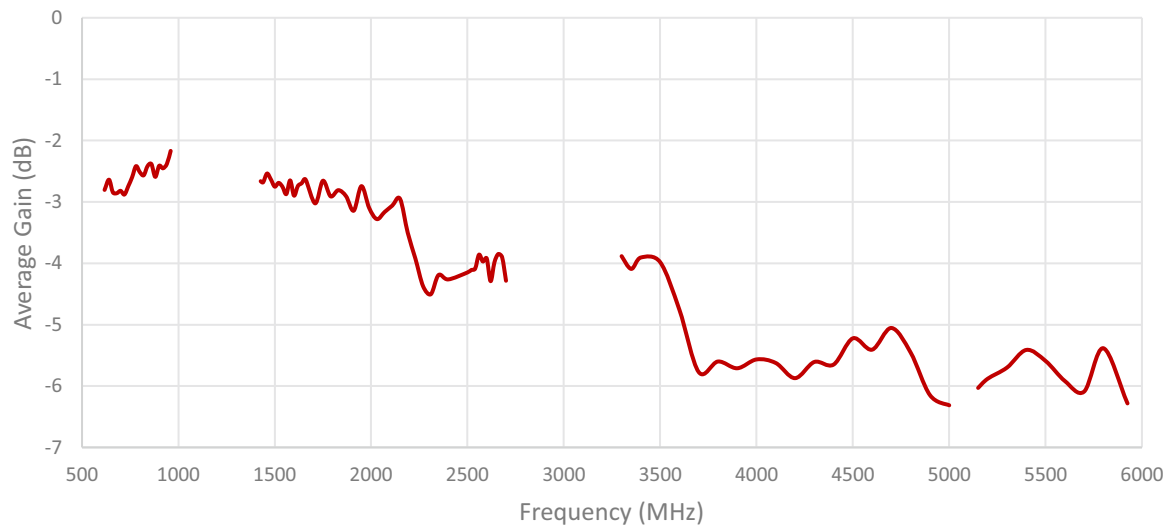
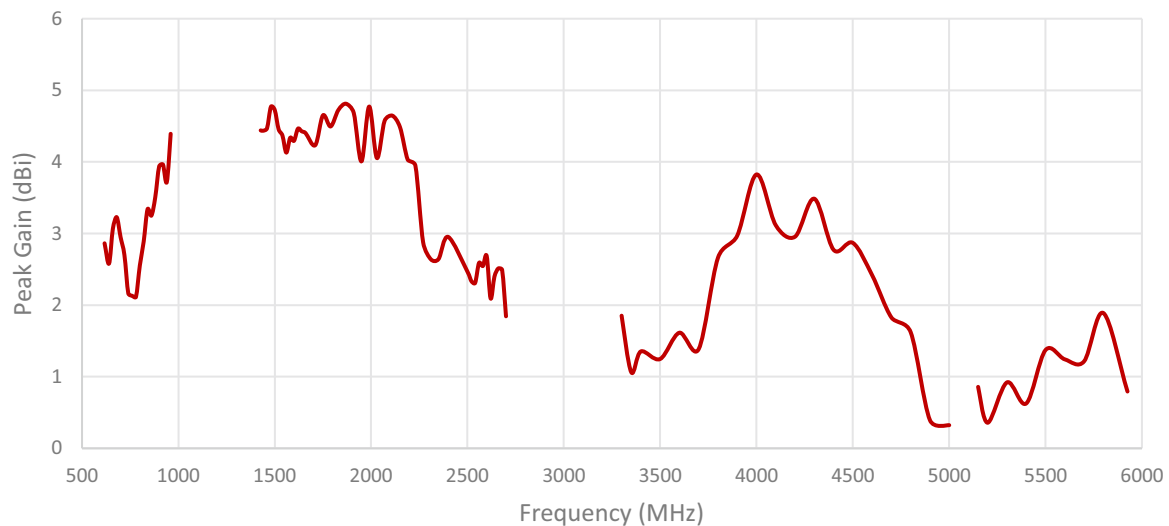
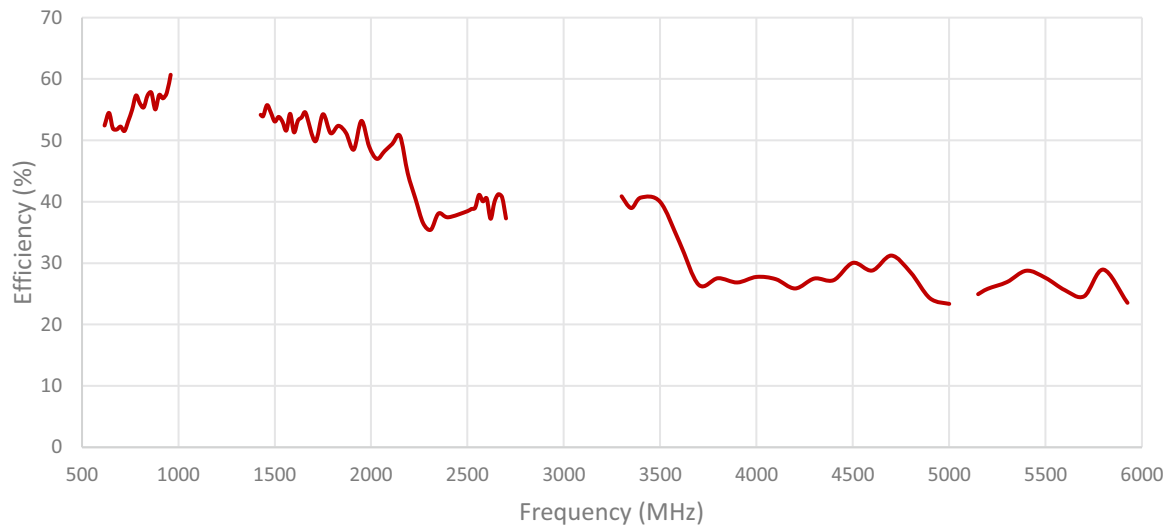
## 2. Mechanical and environmental specifications

| Specifications            | 2J4H85Pe         |
|---------------------------|------------------|
| Mounting Type             | Adhesive Mount   |
| Dimensions (mm)           | 198 x 127 x 15.7 |
| Radome Type               | ASA              |
| Radome color              | Black            |
| Operating Temperature (C) | -40 to +85       |
| Storage Temperature (C)   | -40 to +85       |
| Substance Compliance      | RoHS             |
| Certificates              | IP67, IP69, CE   |

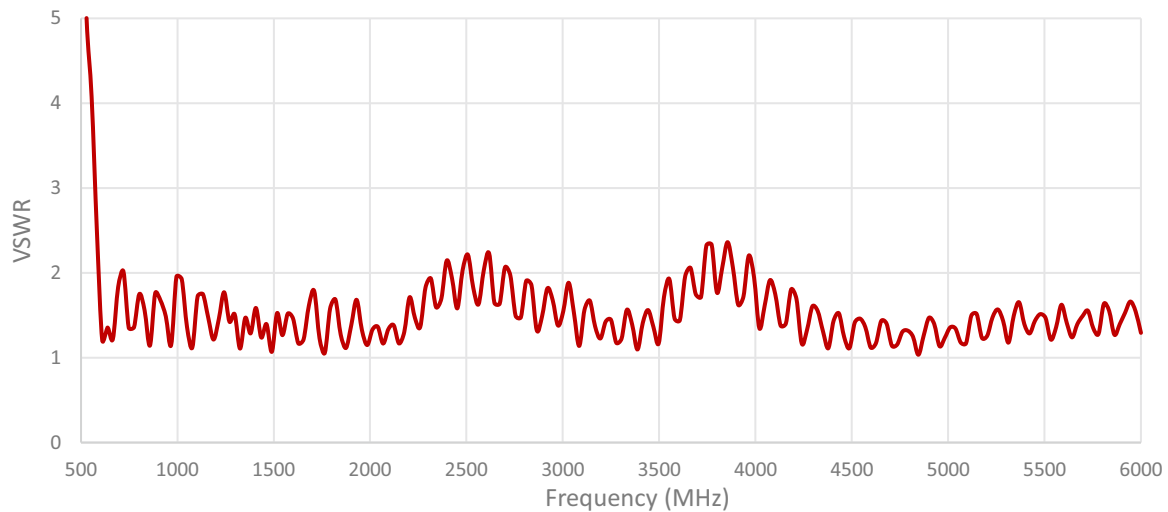
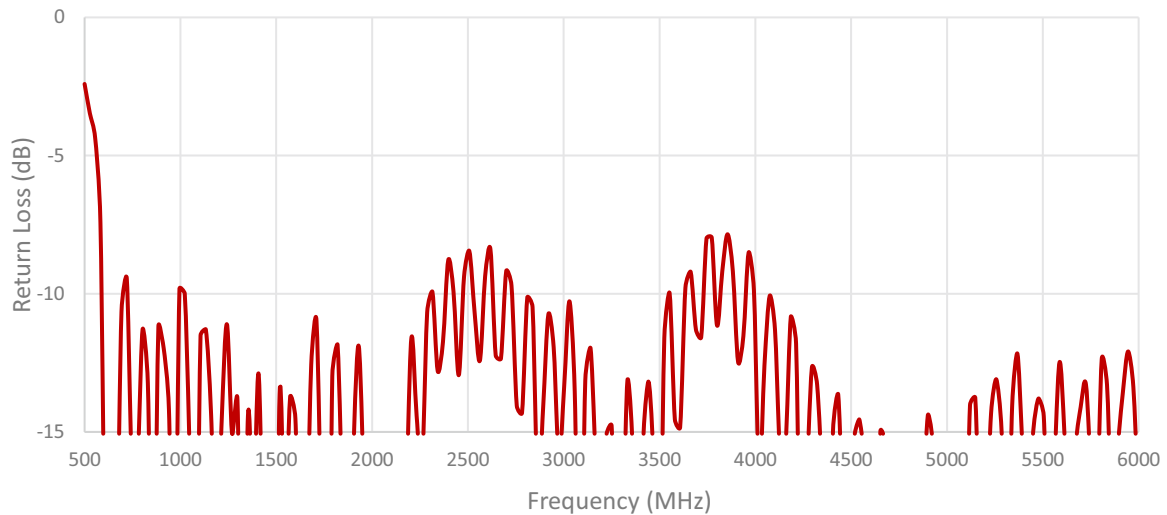
## 3. Antenna parameters

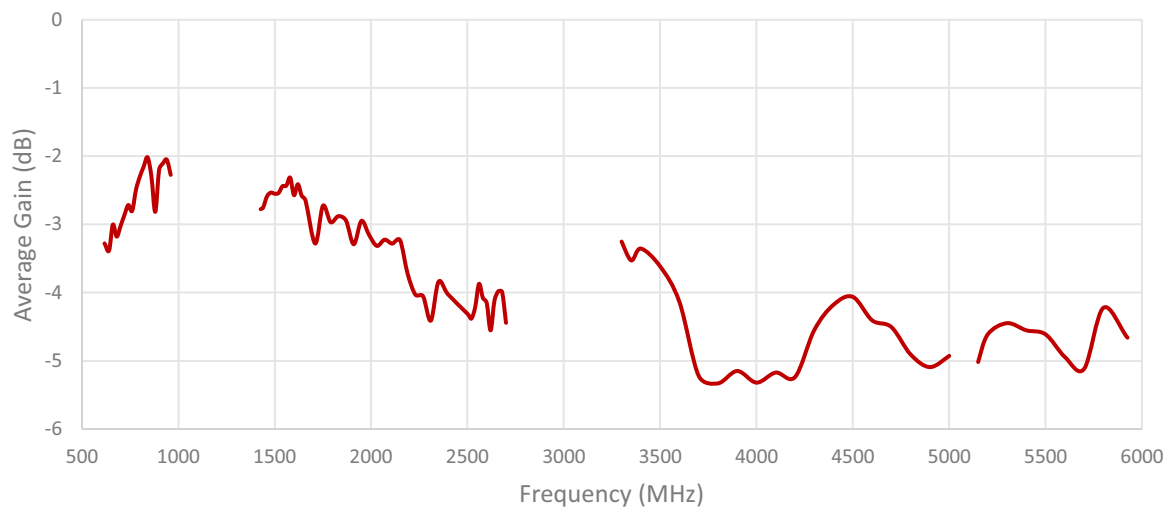
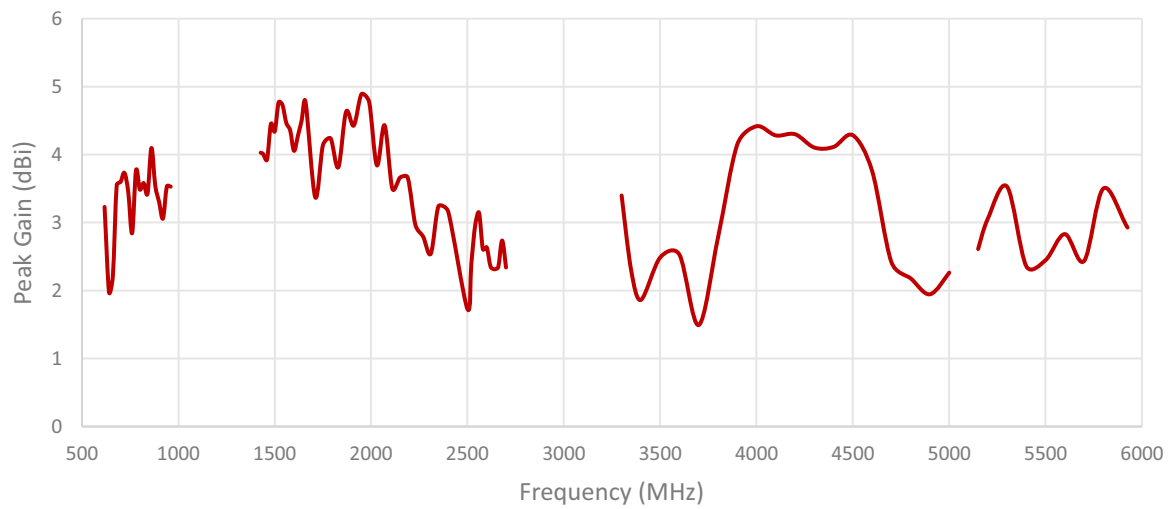
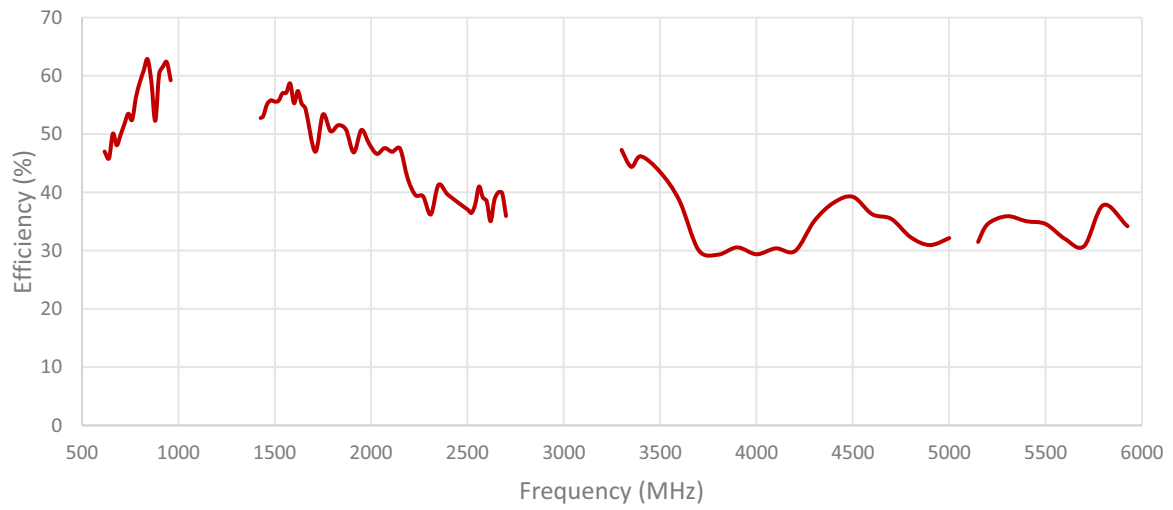
Cable 1: 5GNR



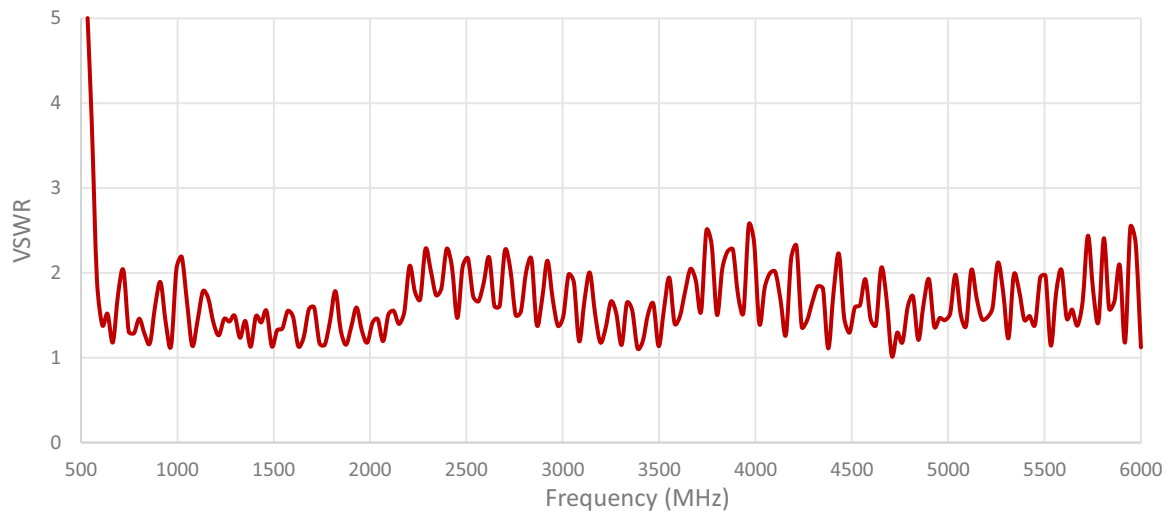
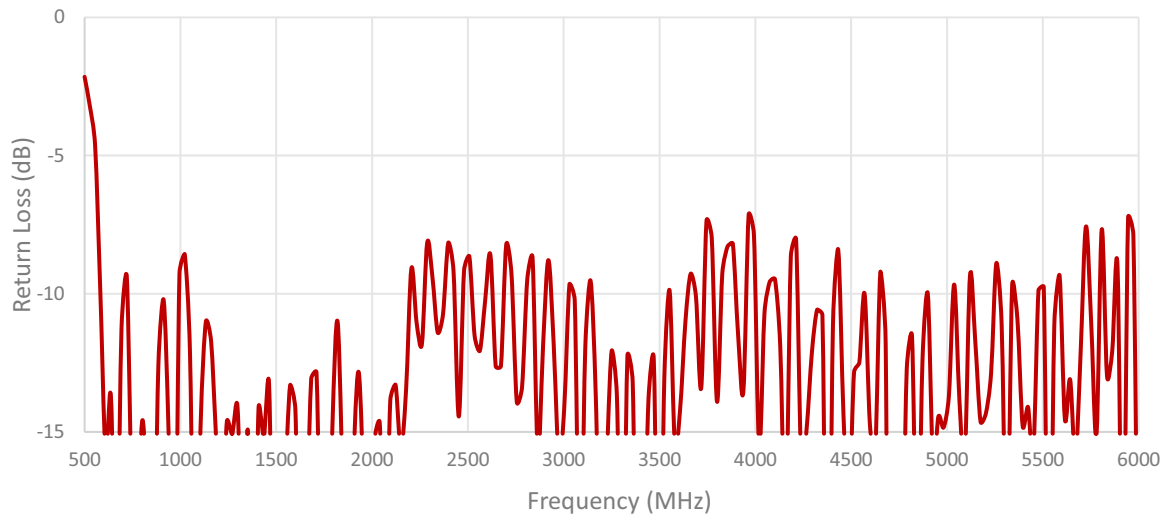


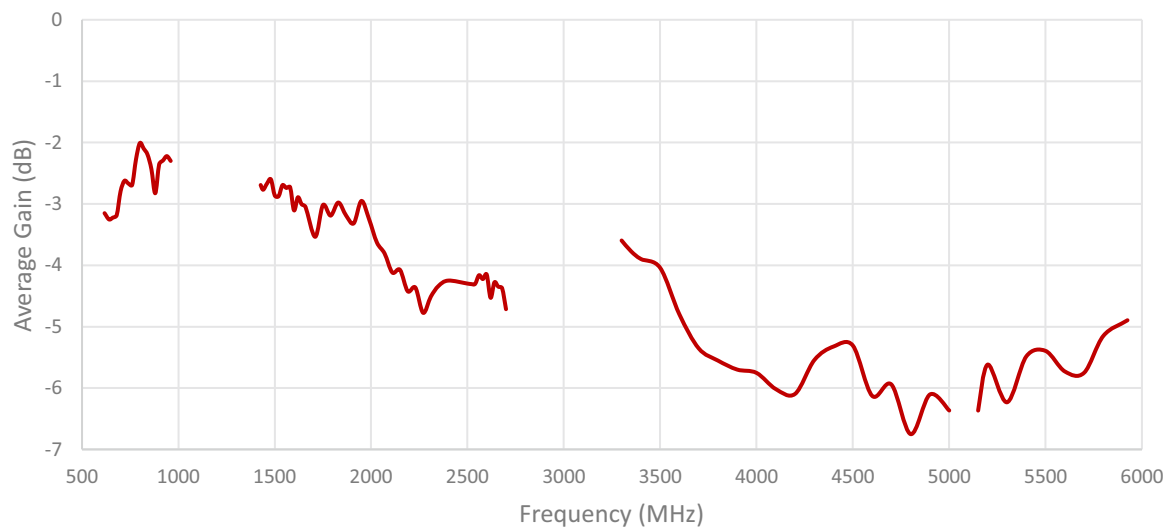
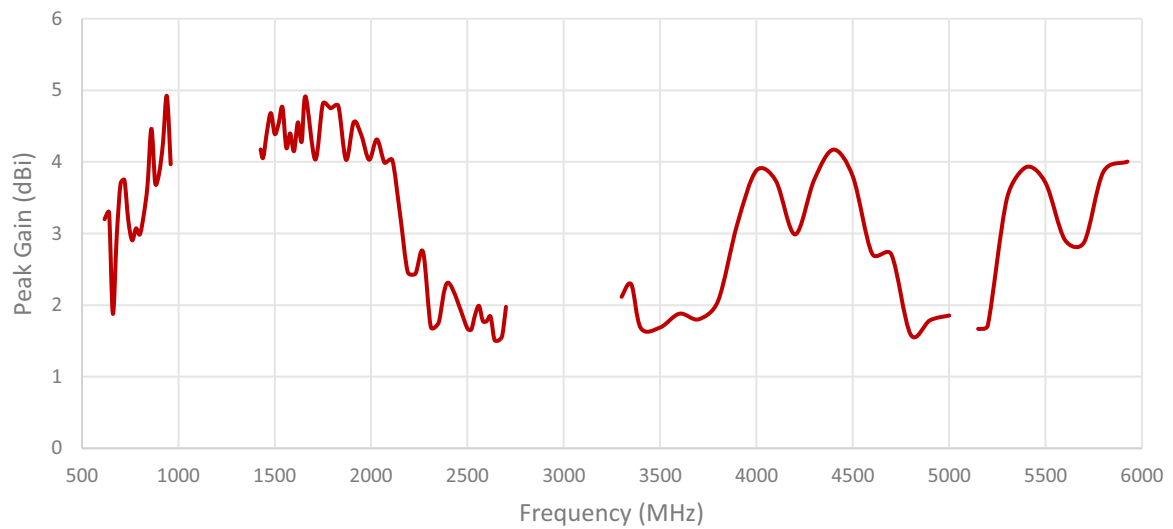
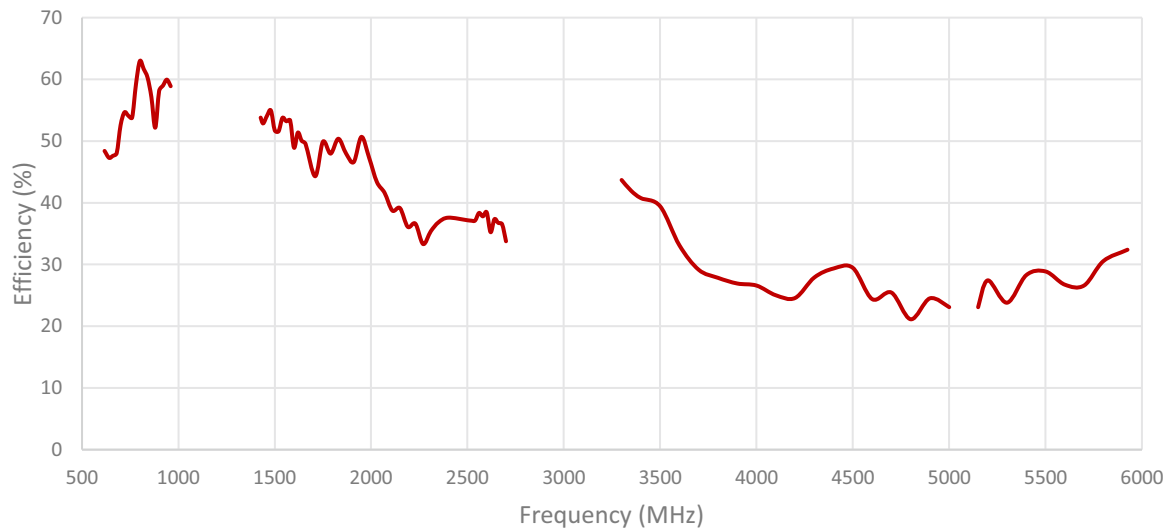
Cable 2: 5GNR



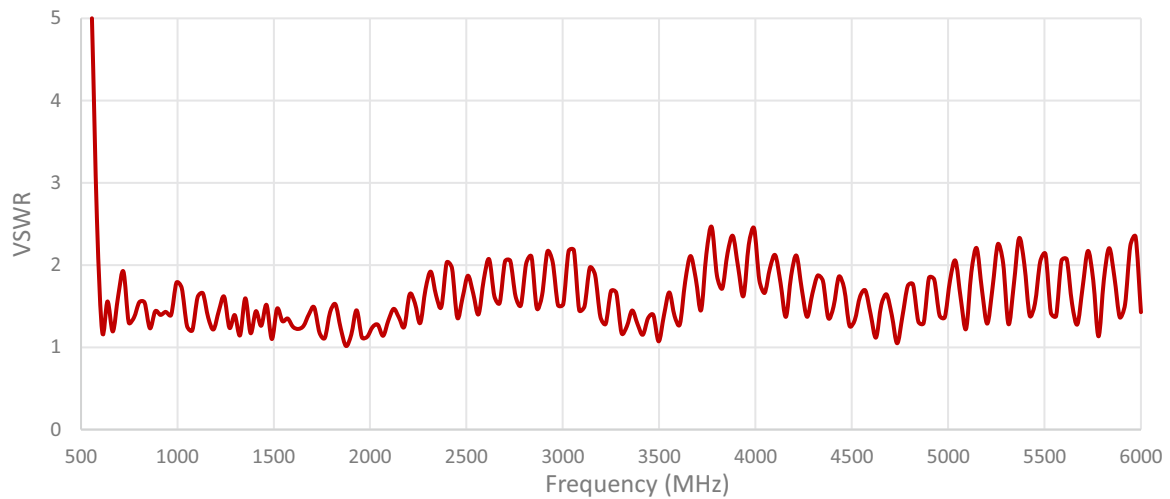
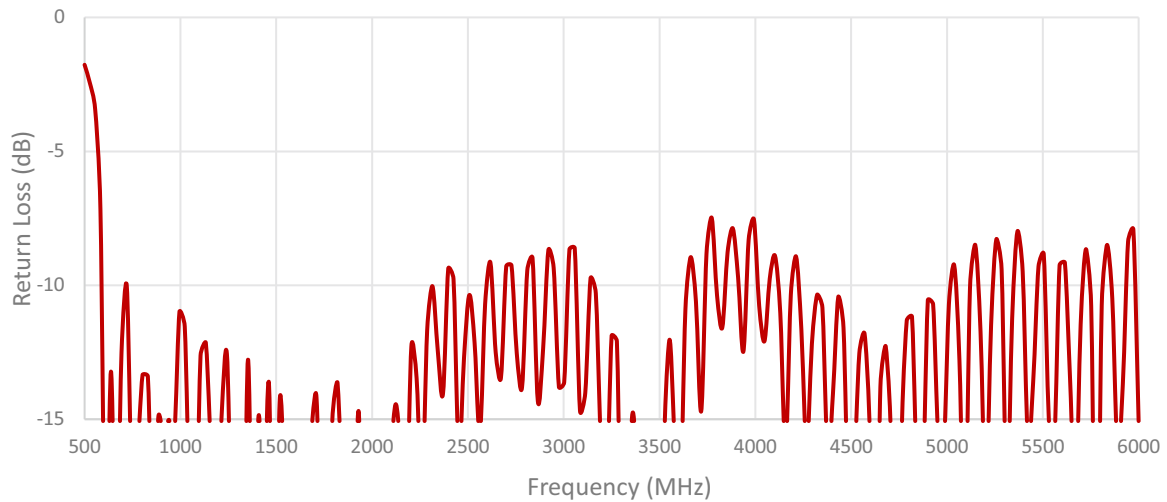


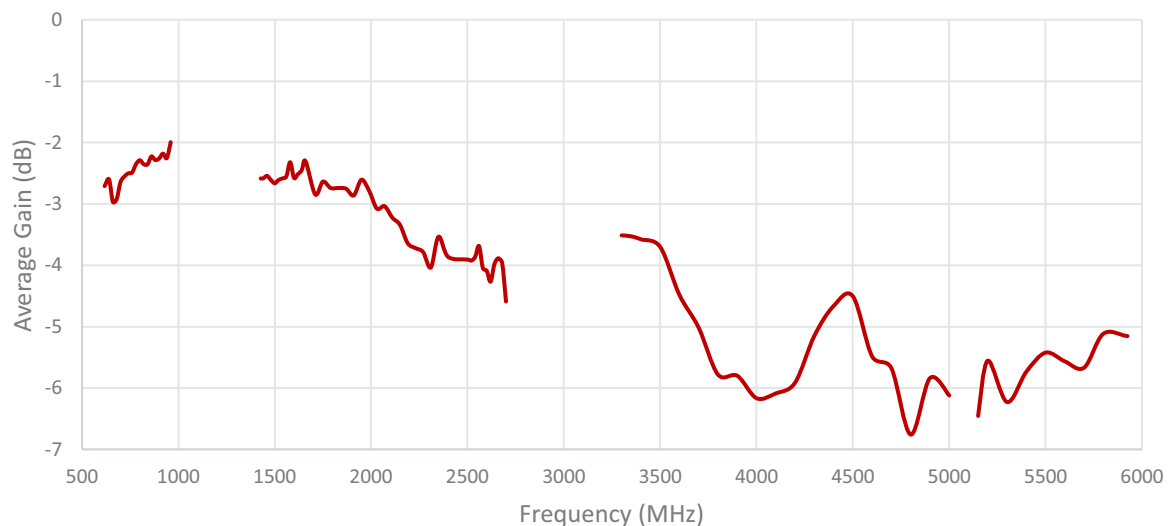
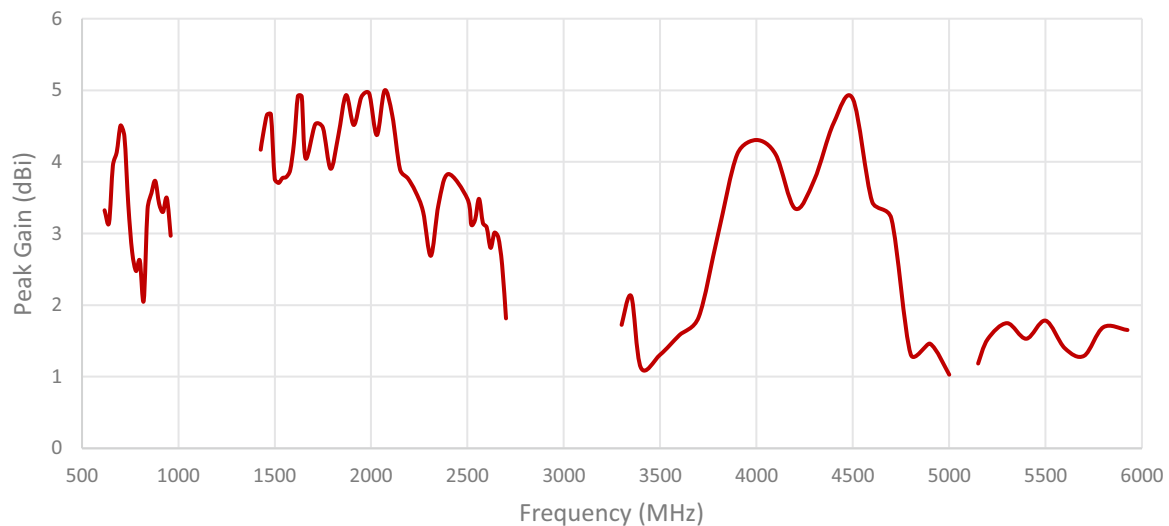
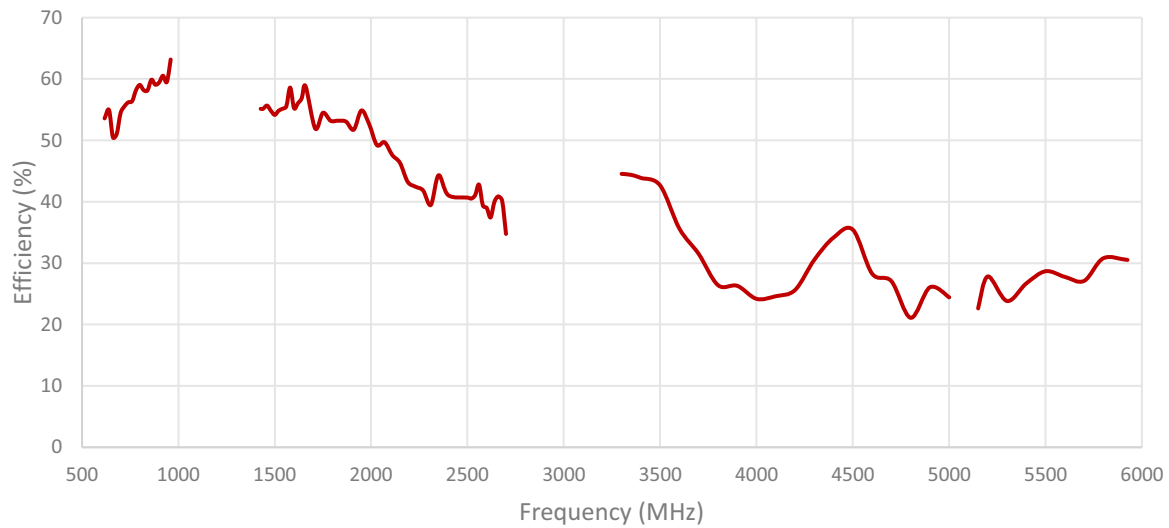
Cable 3: 5GNR



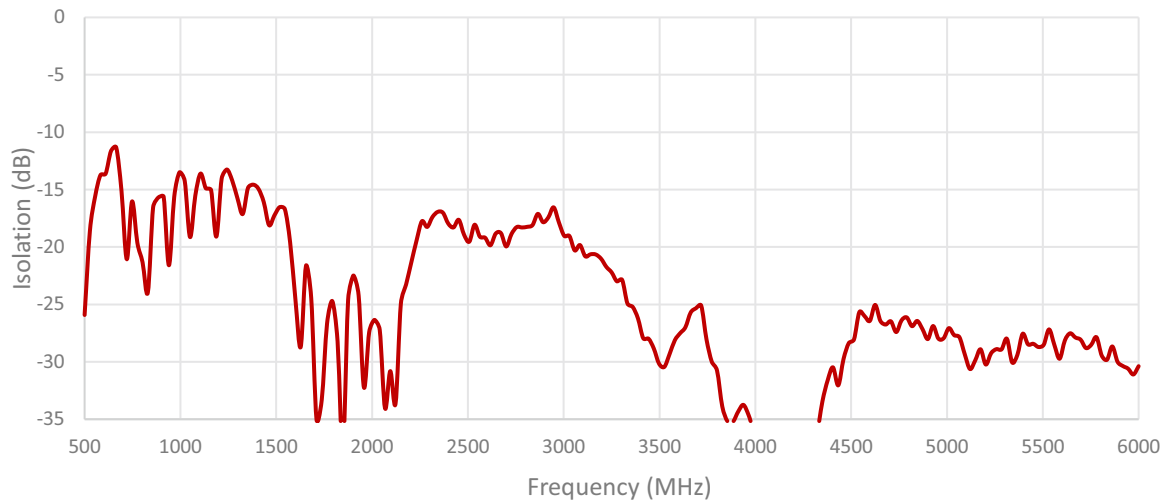


Cable 4: 5GNR

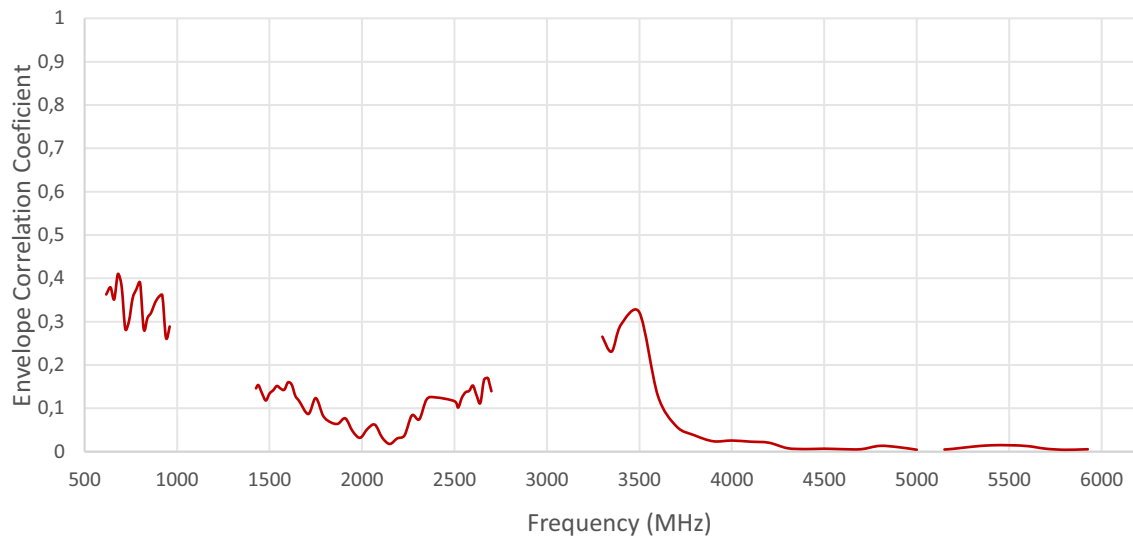




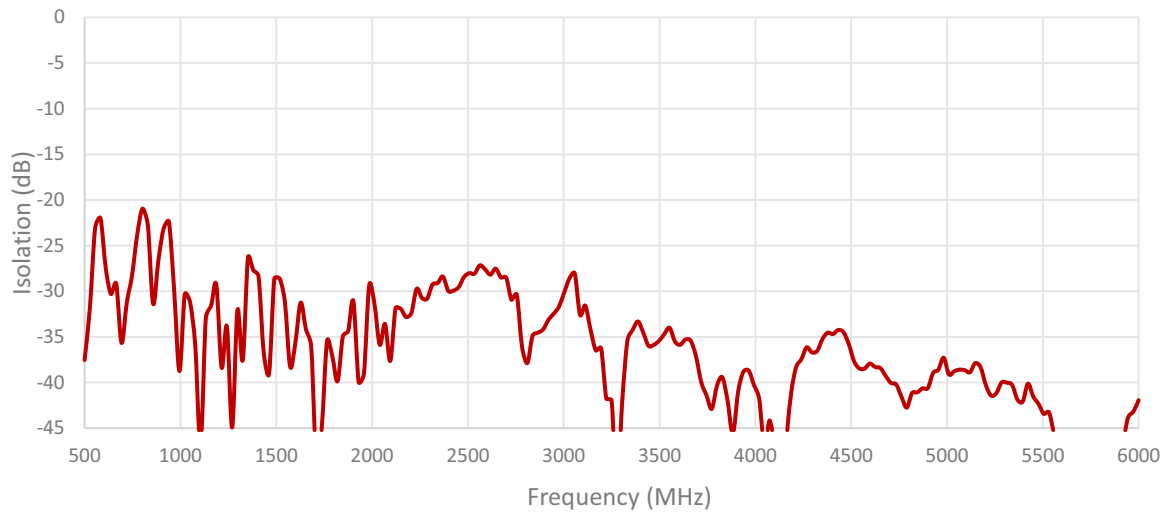
## ISOLATION FOR CABLES 1 AND 2



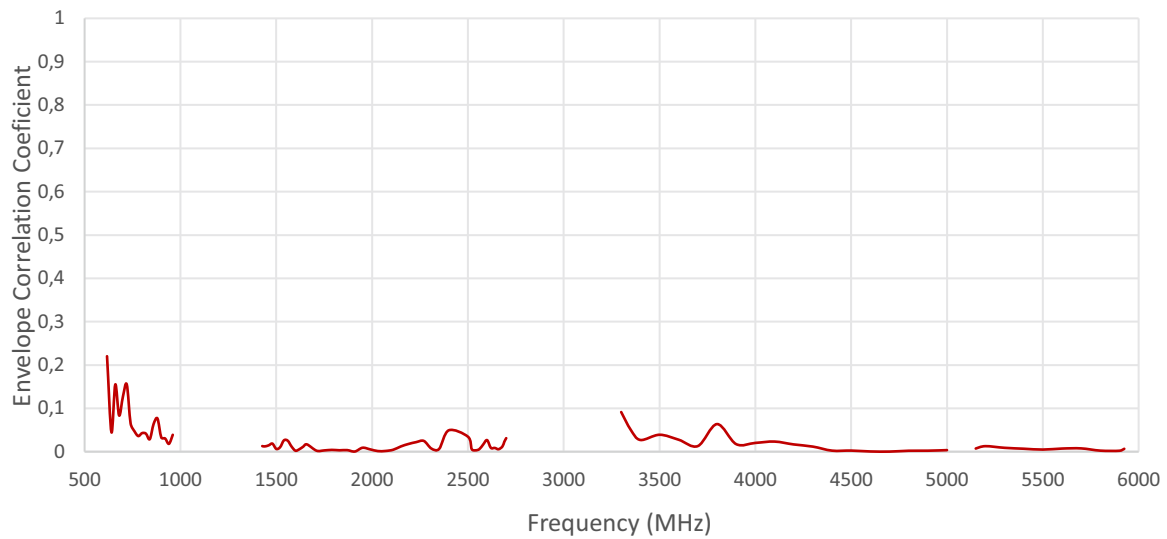
## ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2



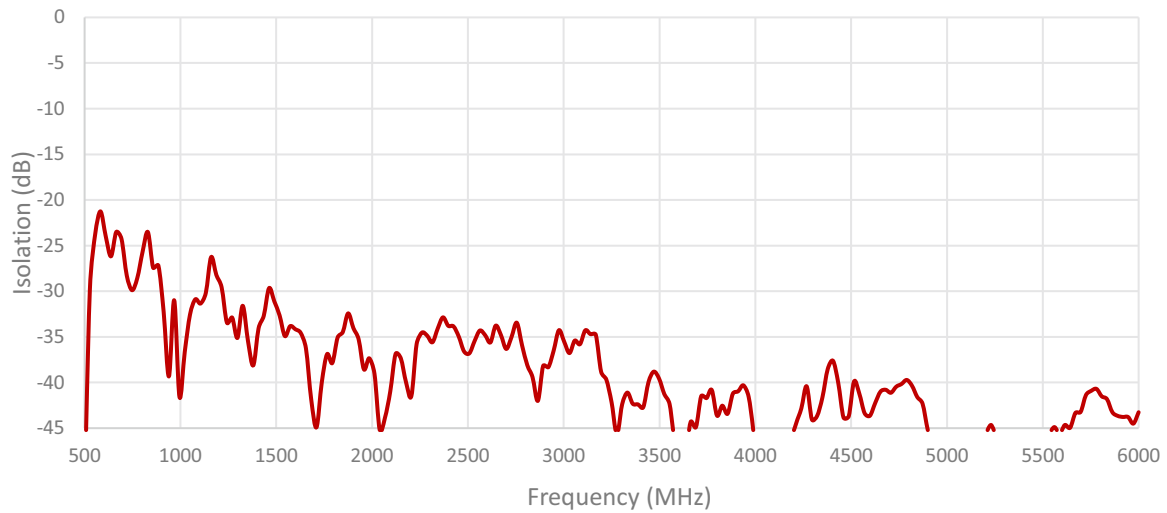
## ISOLATION FOR CABLES 1 AND 3



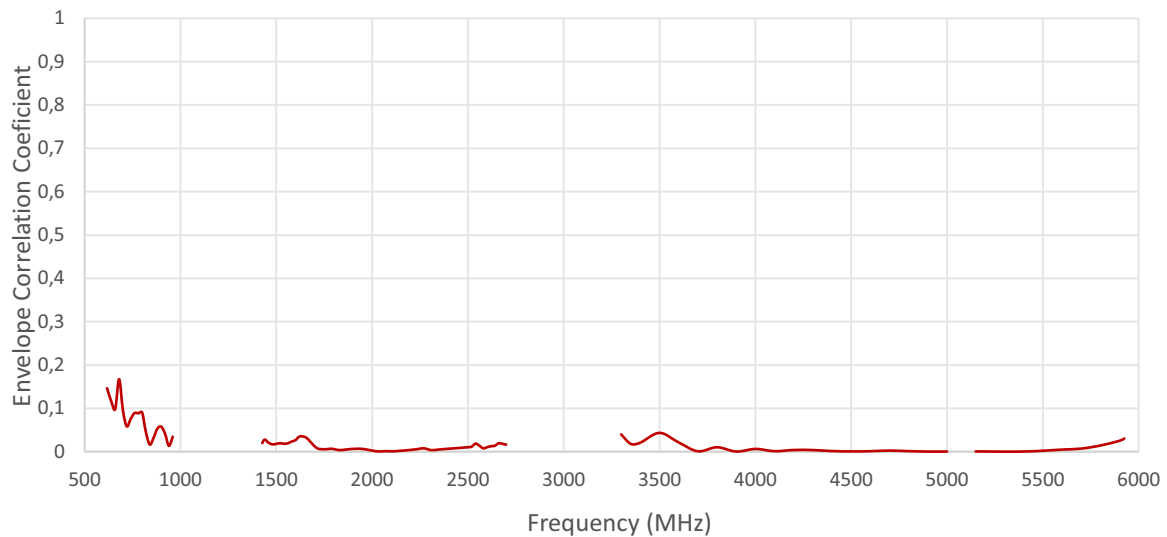
## ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 3



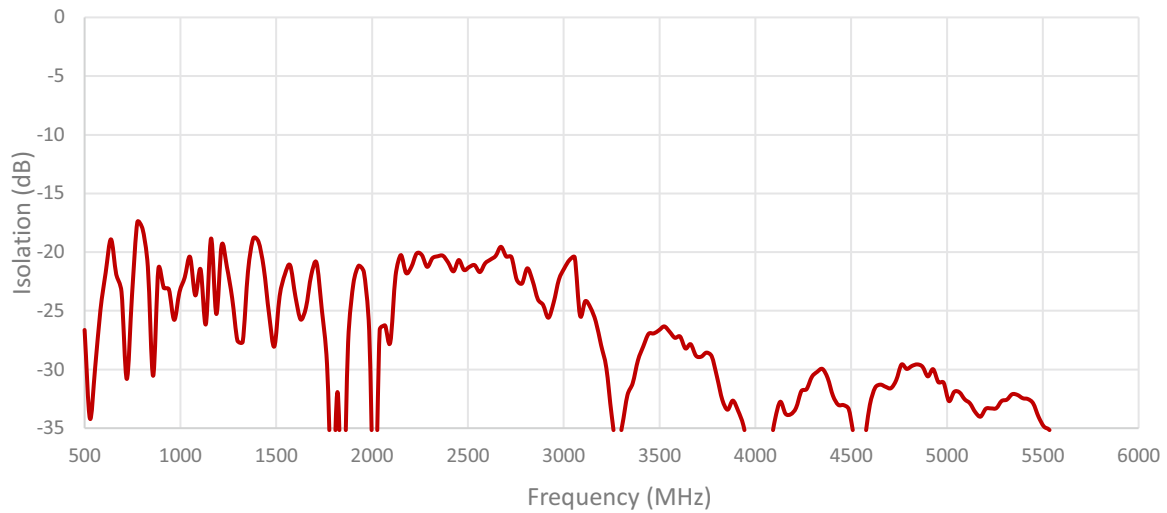
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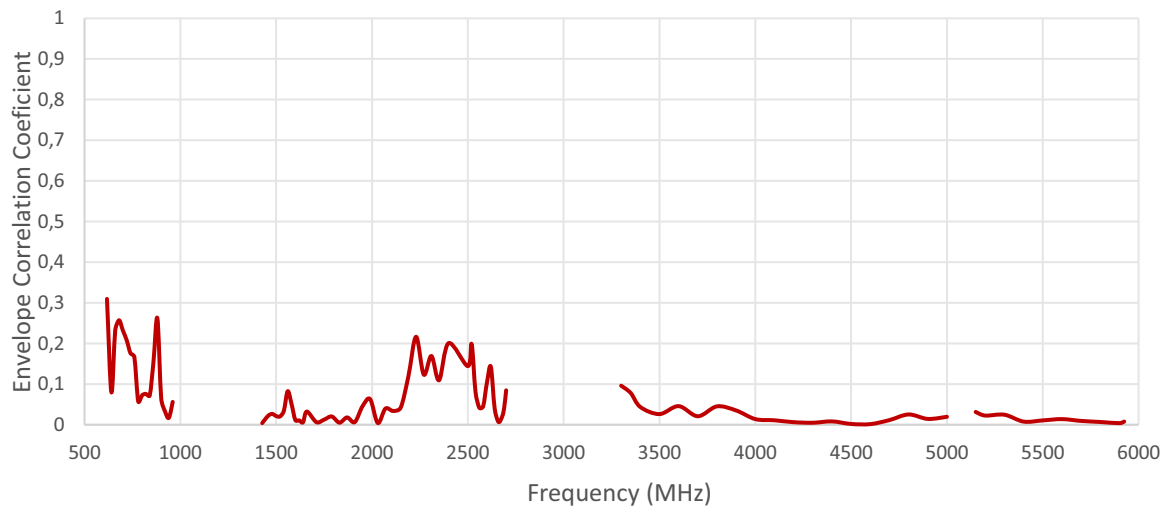
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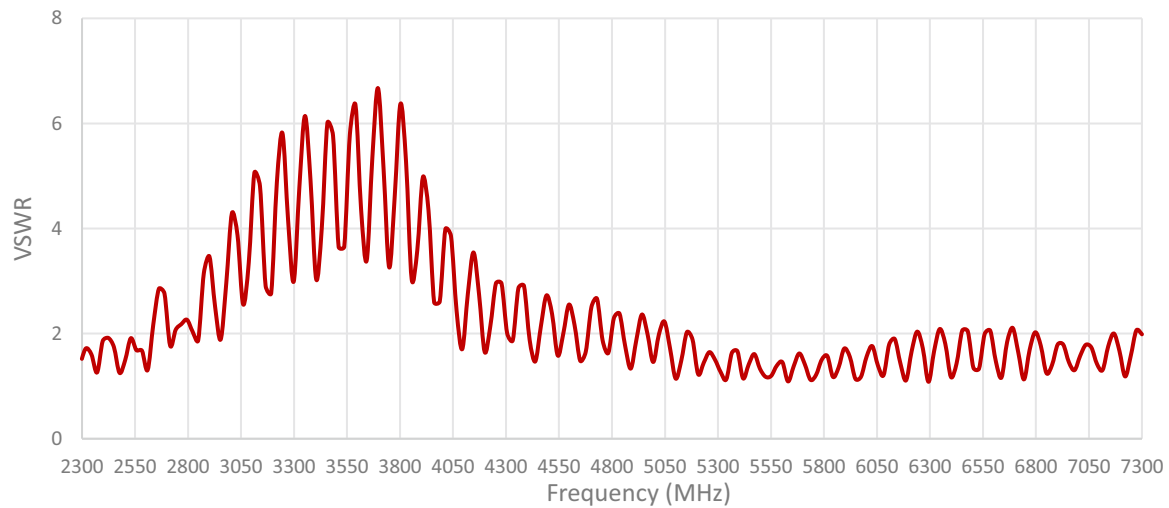
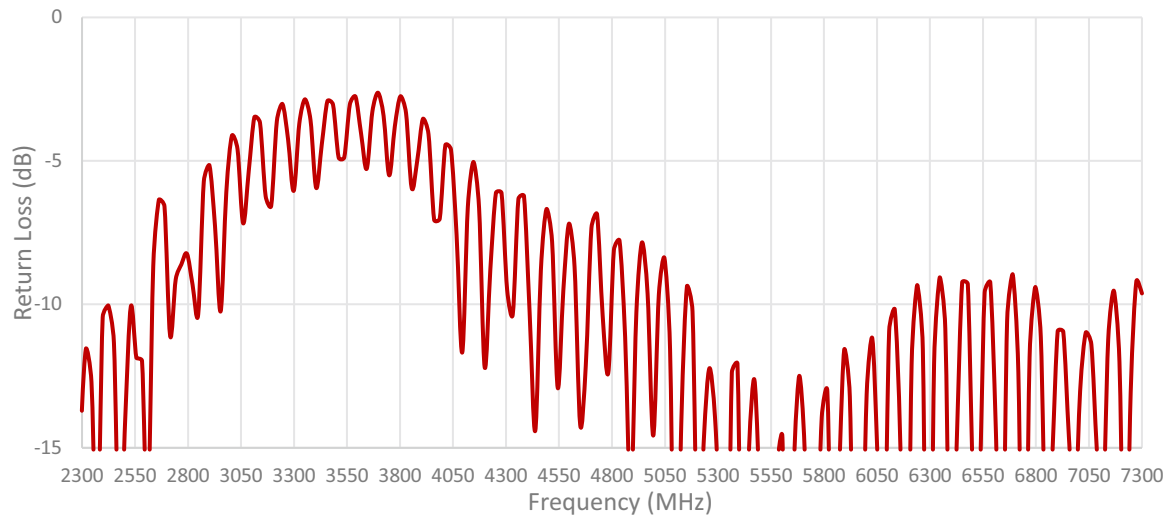
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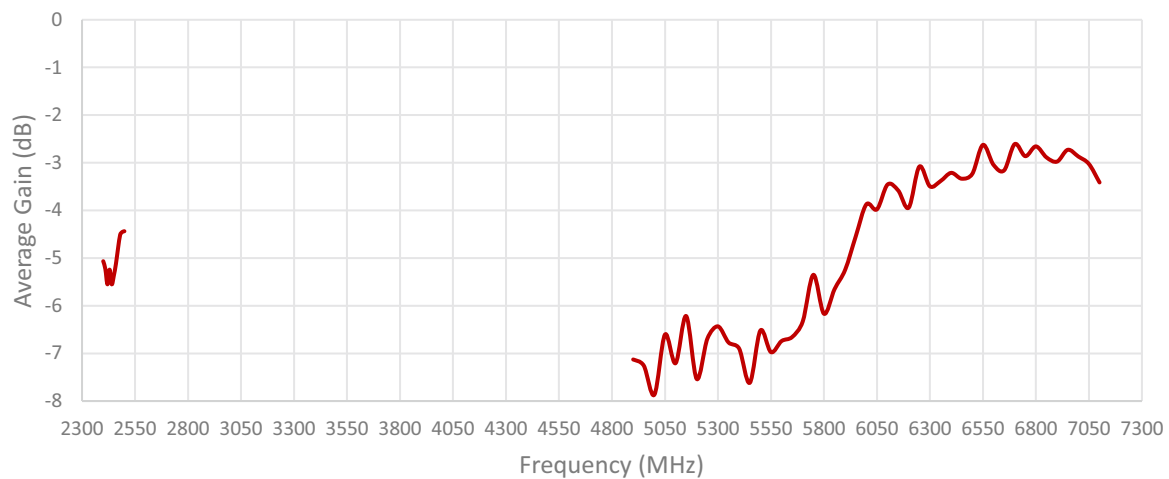
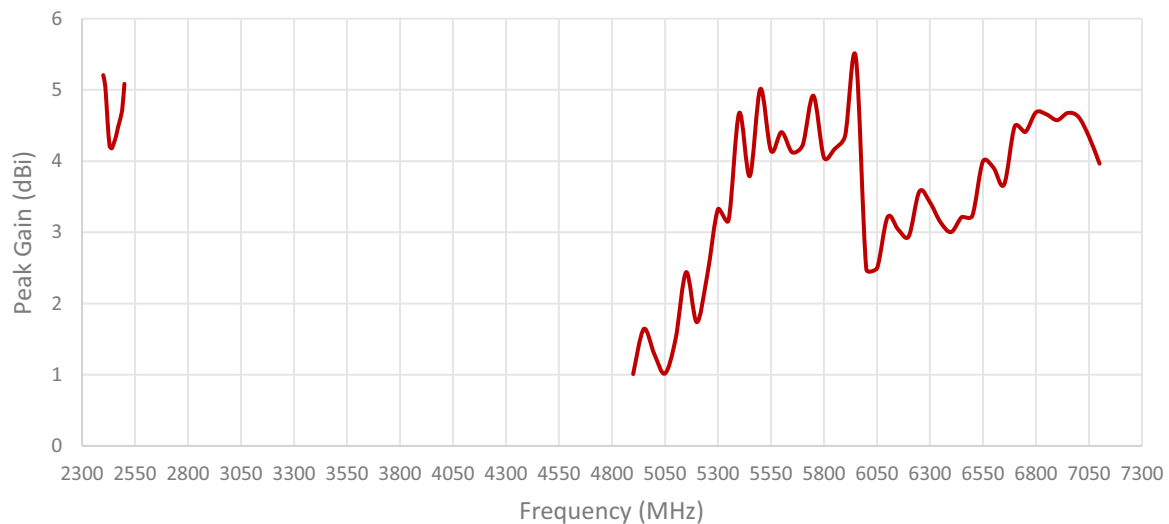
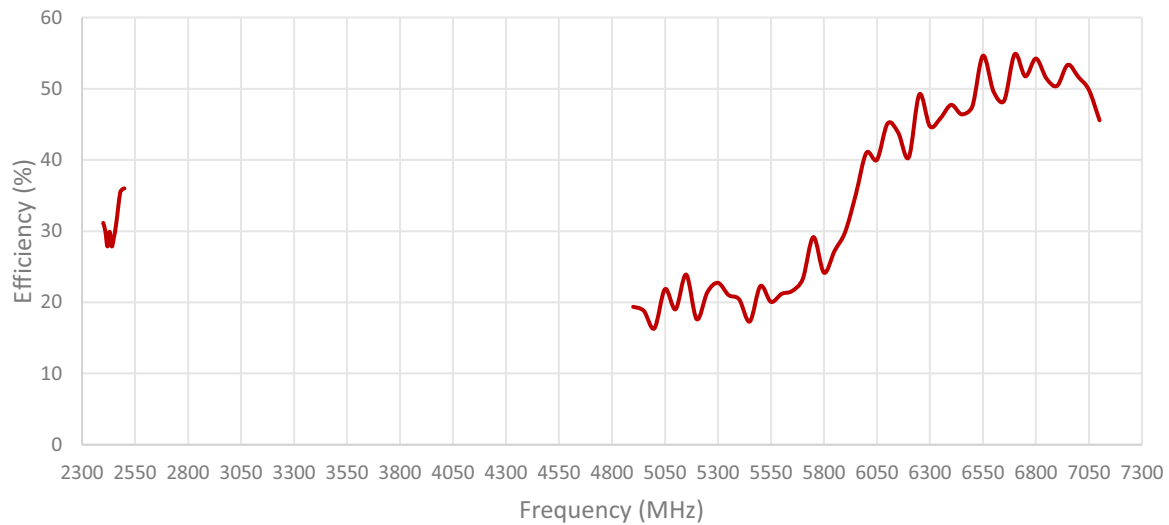


## ENVELOPE CORRELATION COEFFICIENT FOR CABLES 2 AND 3

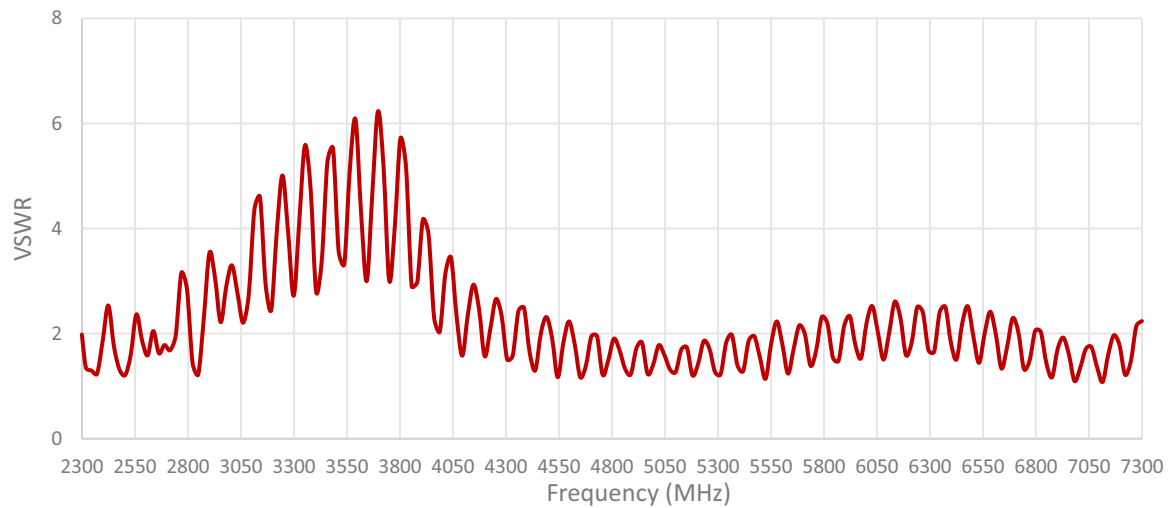
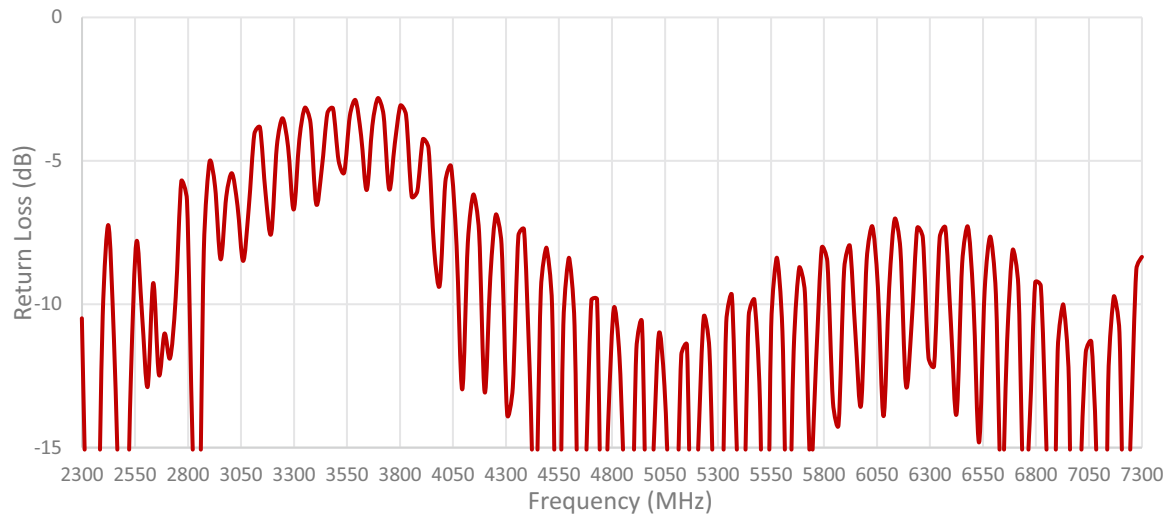


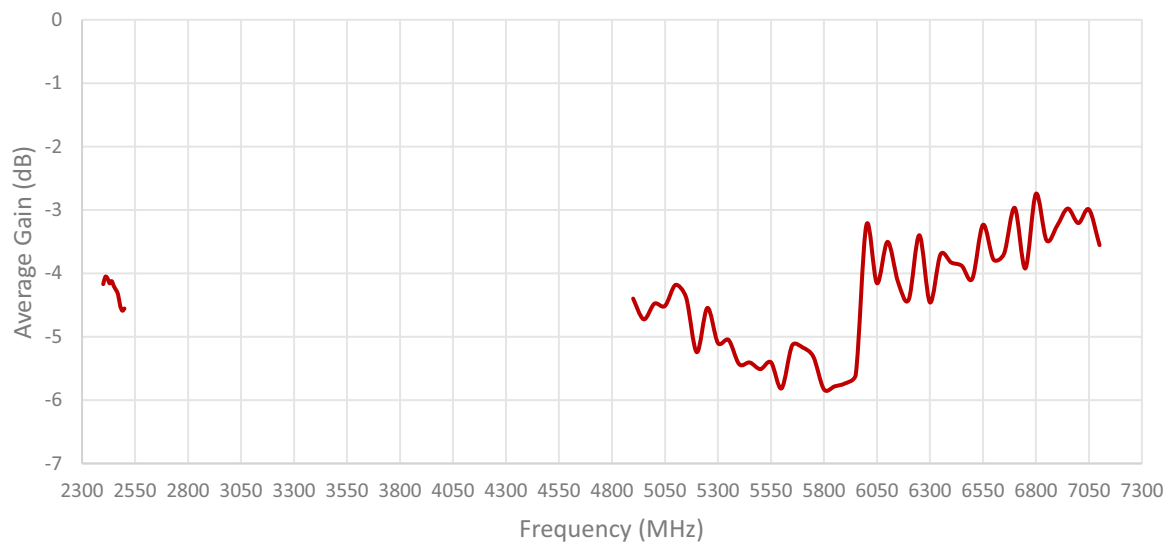
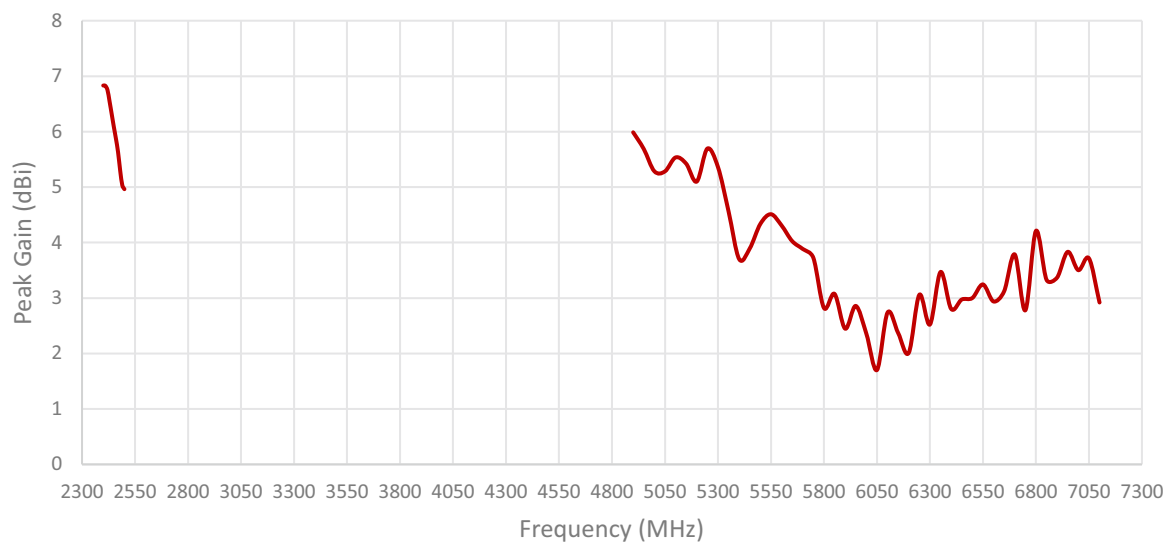
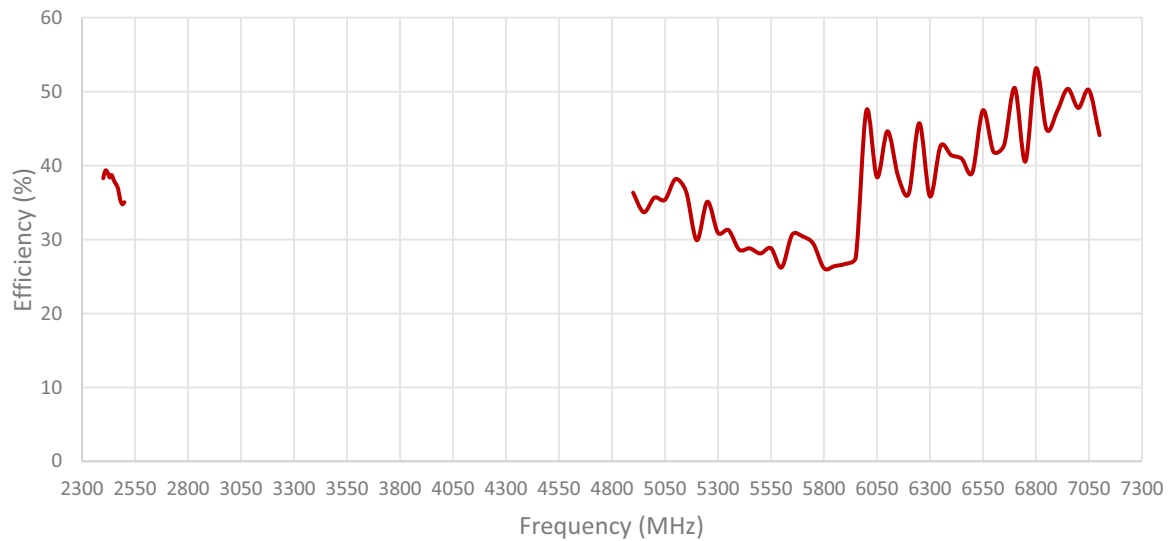
Cable 5: 2.4/5.0/6.0 GHz ISM



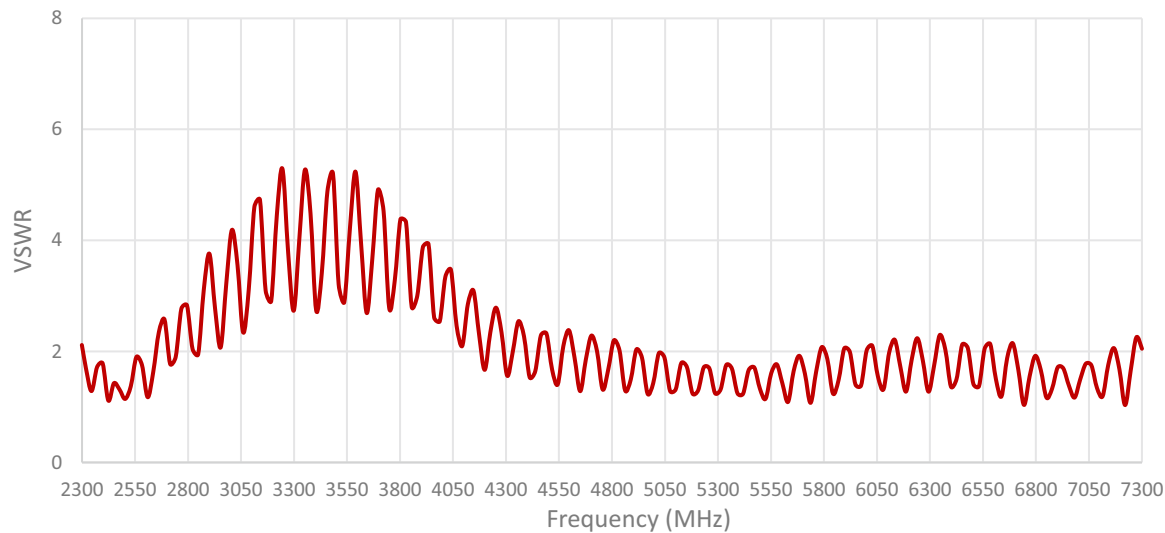
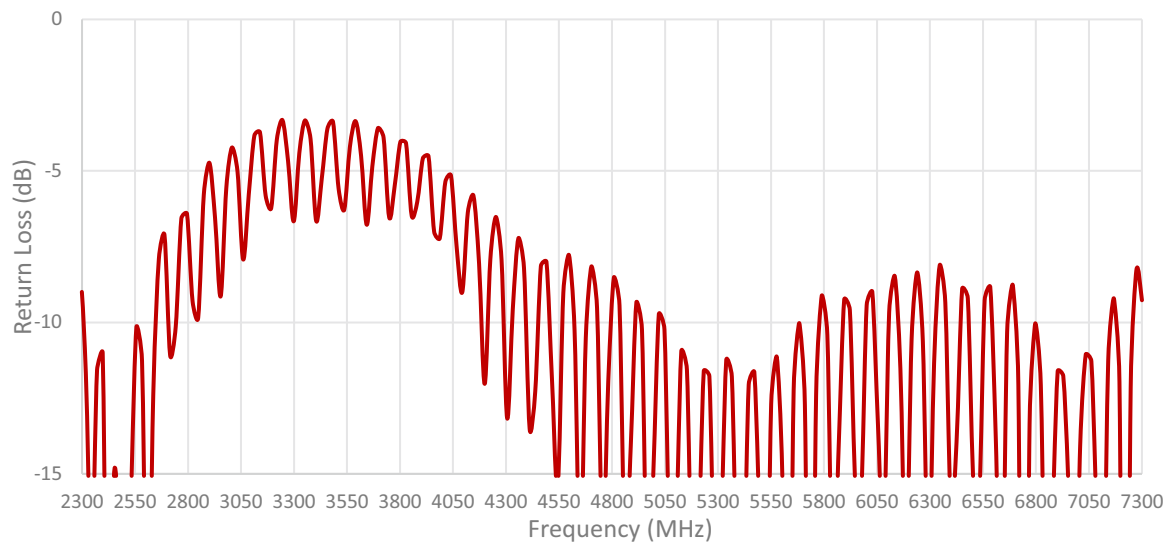


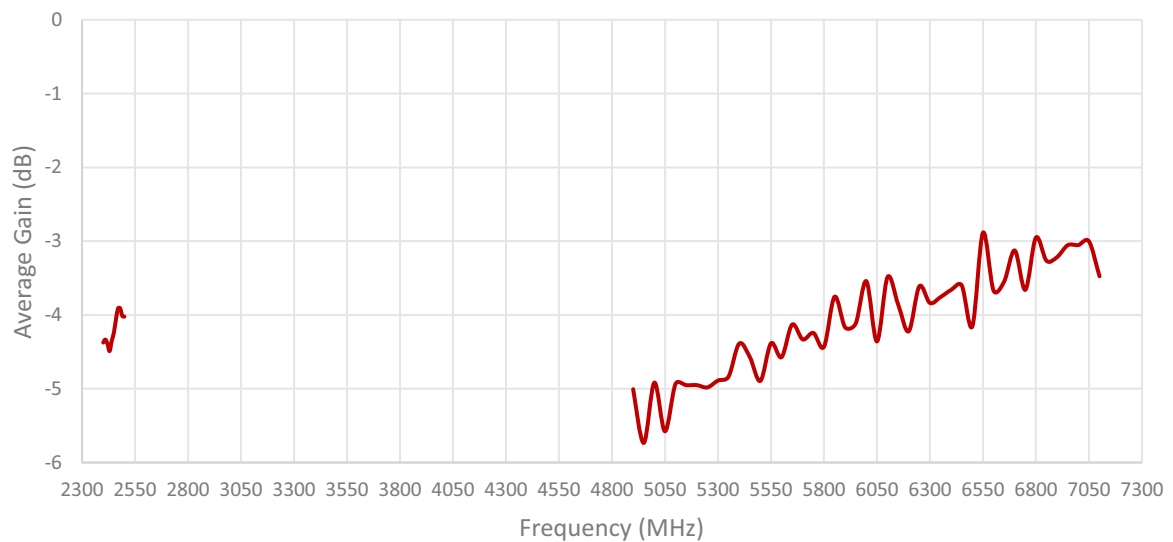
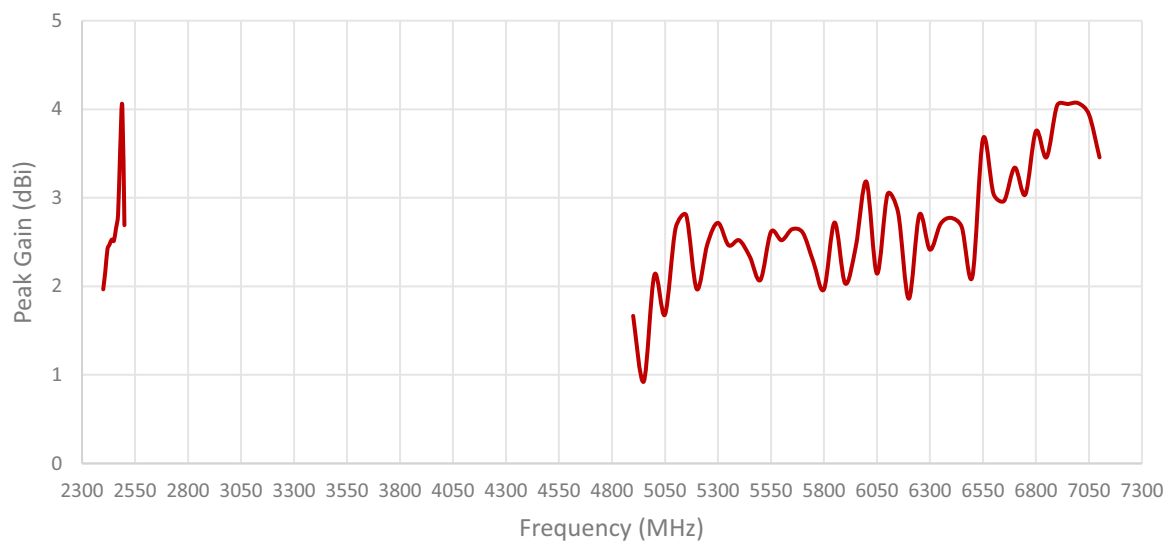
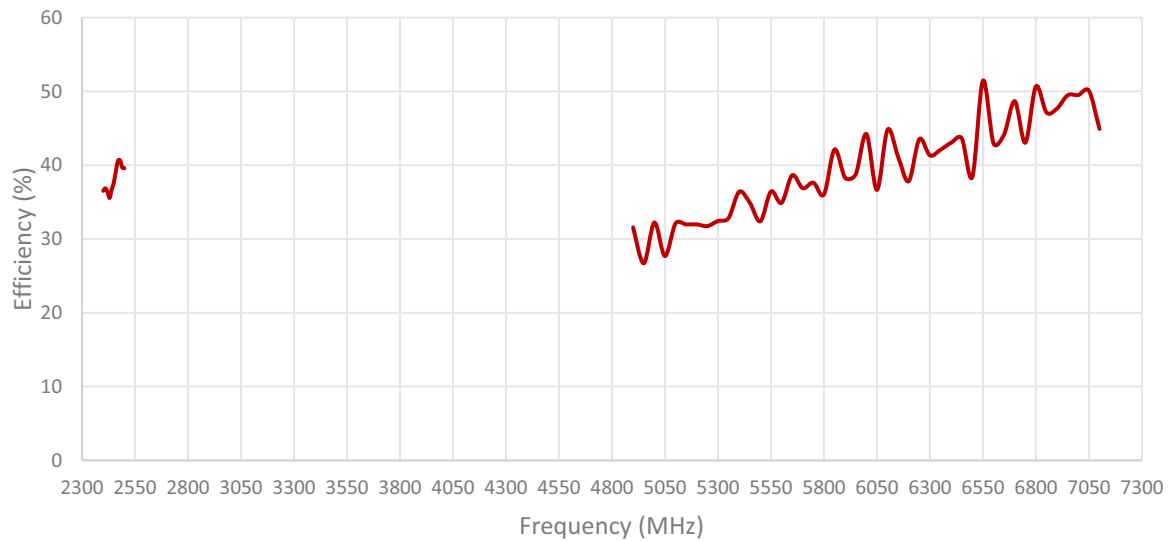
Cable 6: 2.4/5.0/6.0 GHz ISM



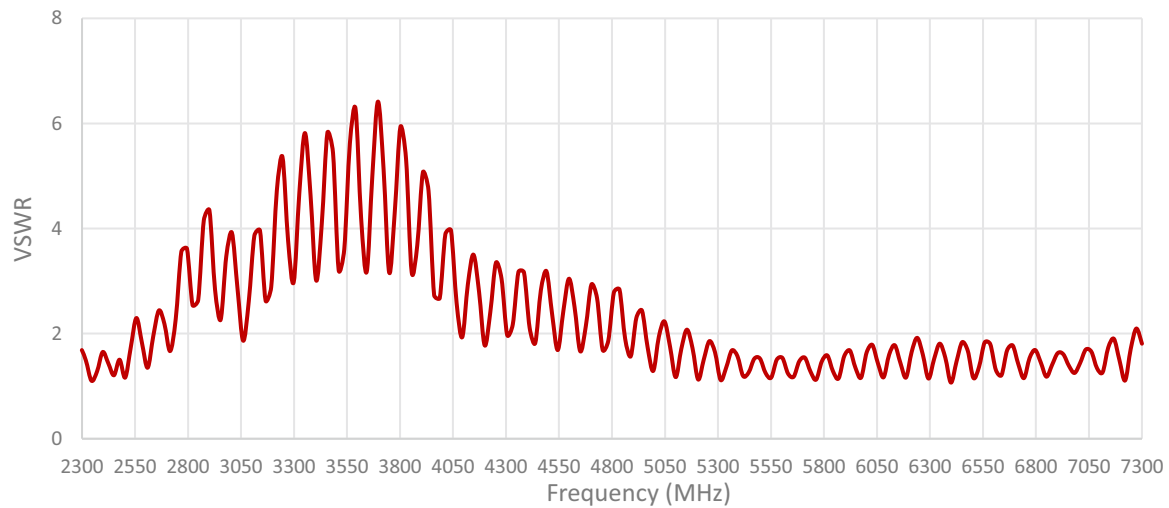
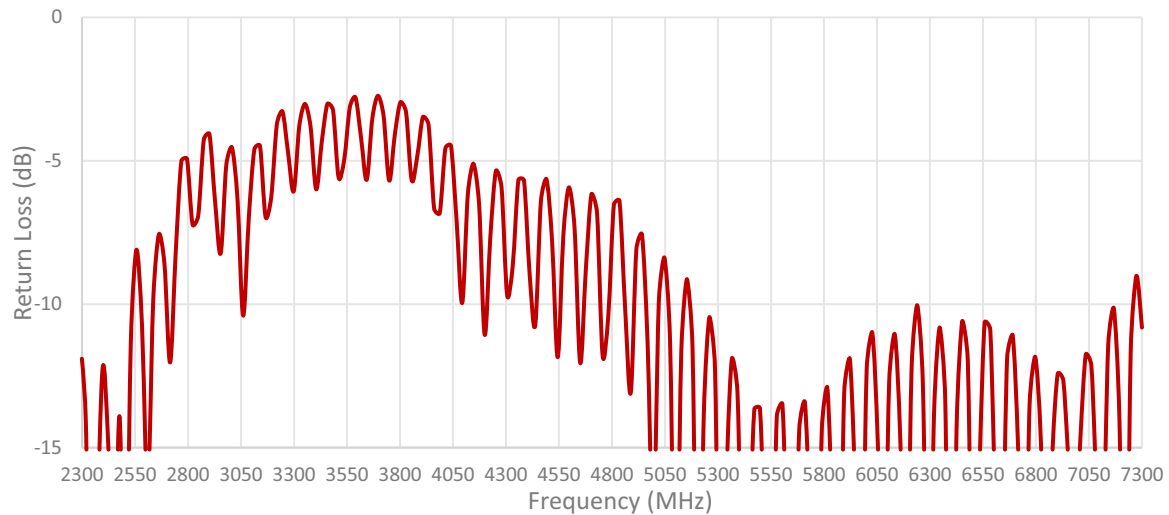


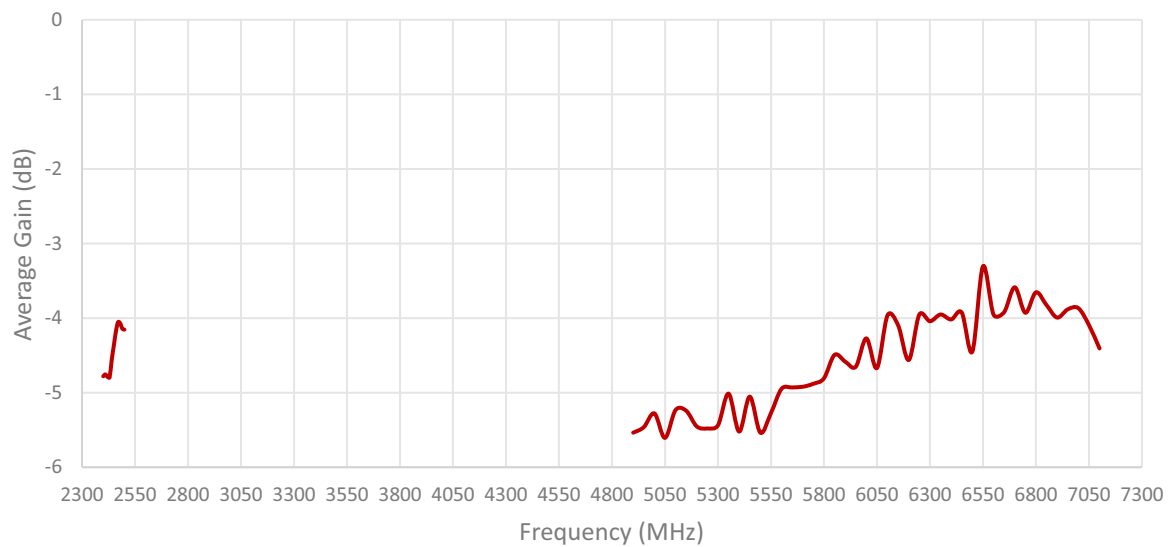
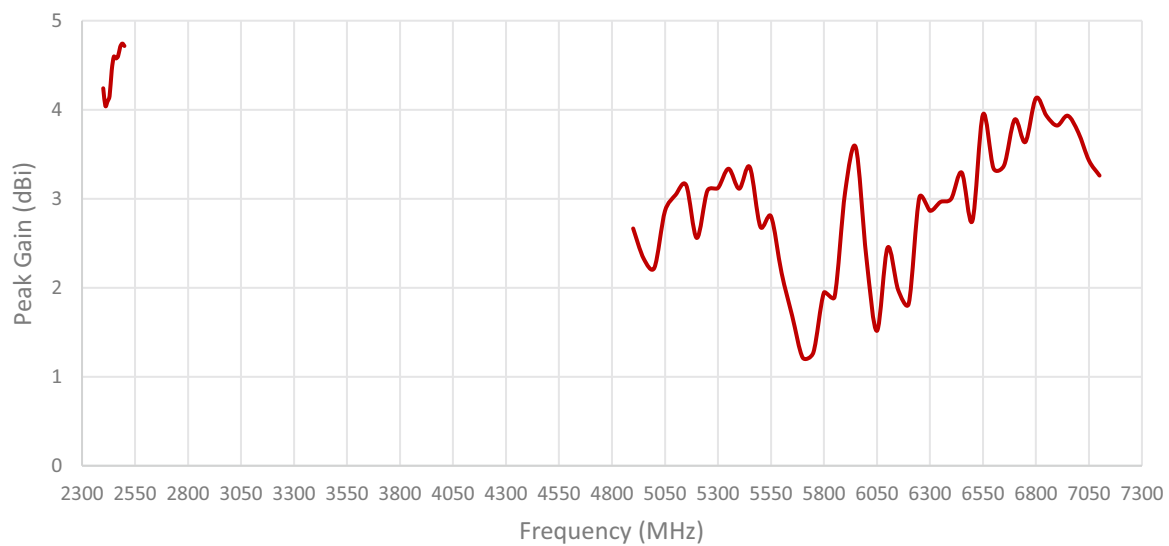
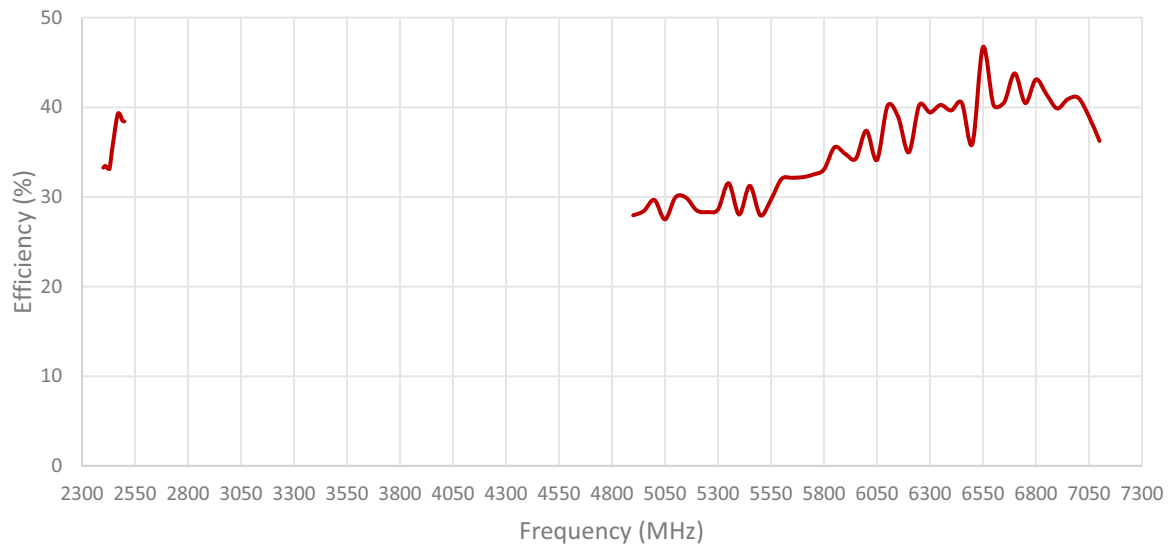
**Cable 7: 2.4/5.0/6.0 GHz ISM**



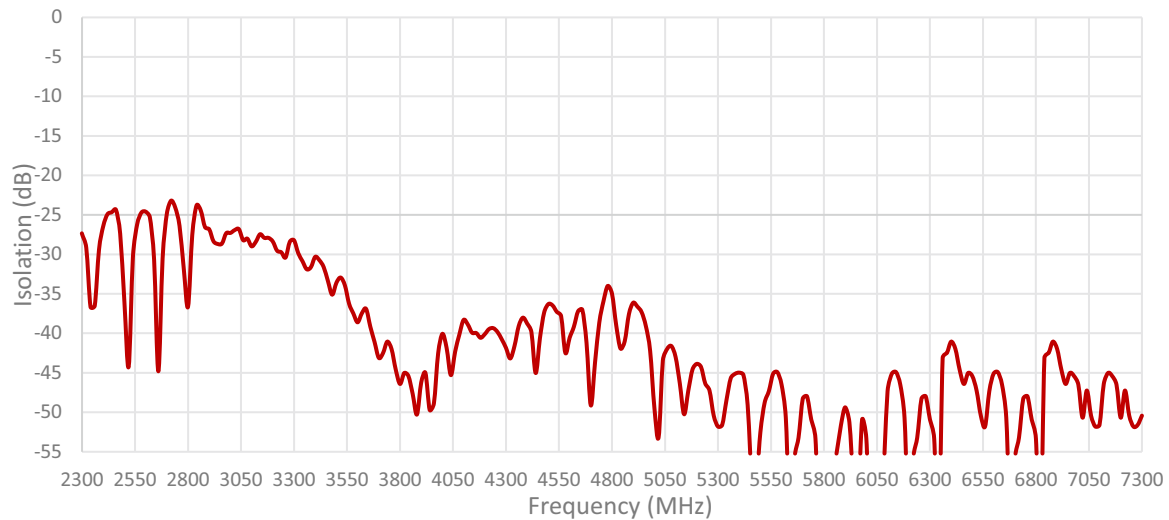


Cable 8: 2.4/5.0/6.0 GHz ISM

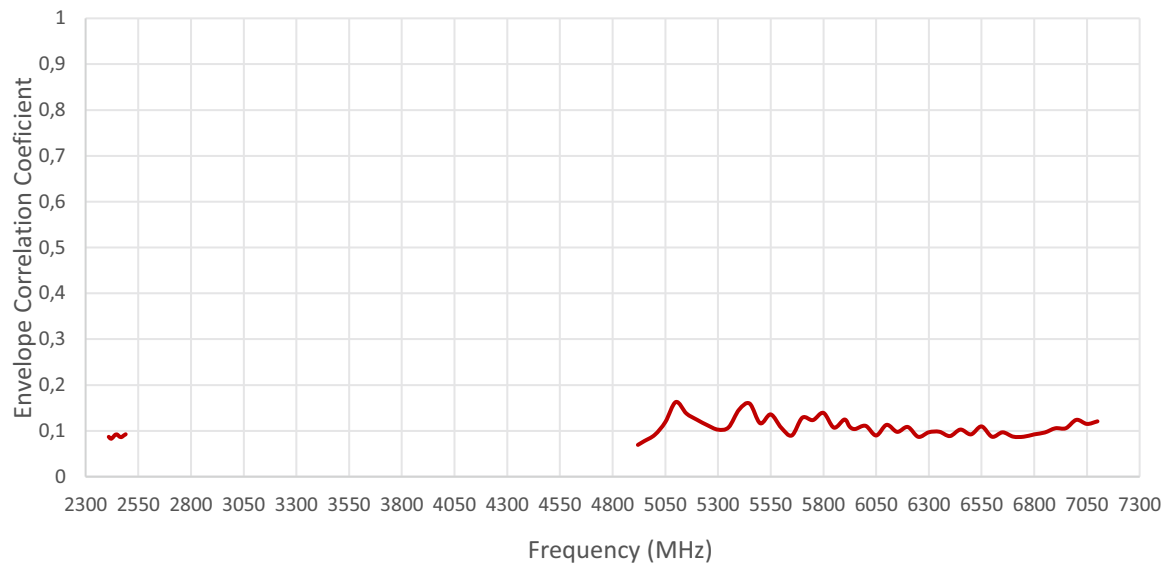




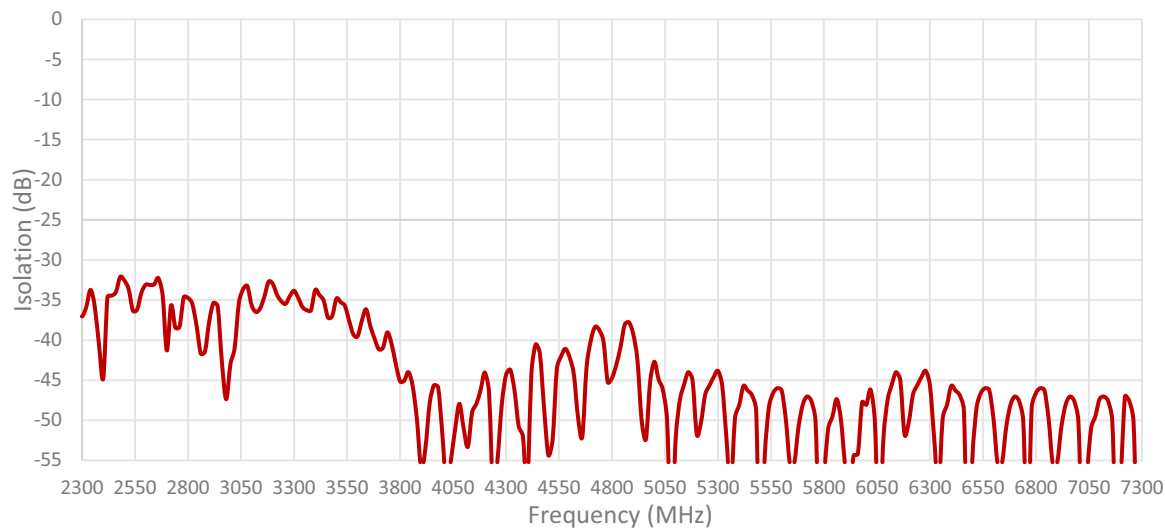
## ISOLATION FOR CABLES 5 AND 6



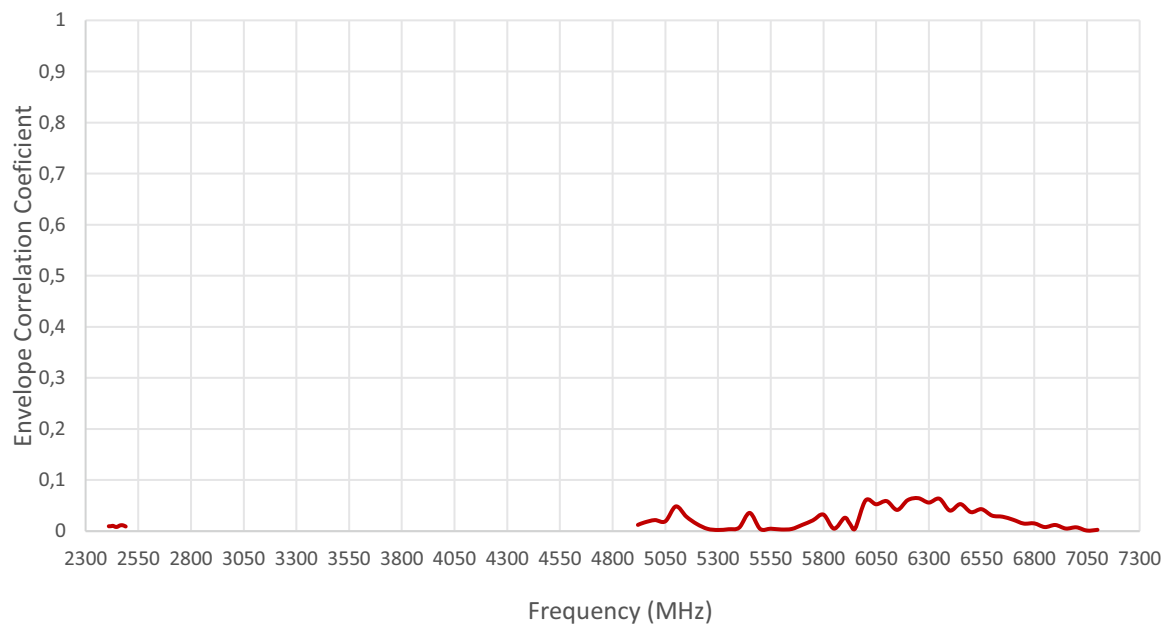
## ENVELOPE CORRELATION COEFFICIENT FOR CABLES 5 AND 6



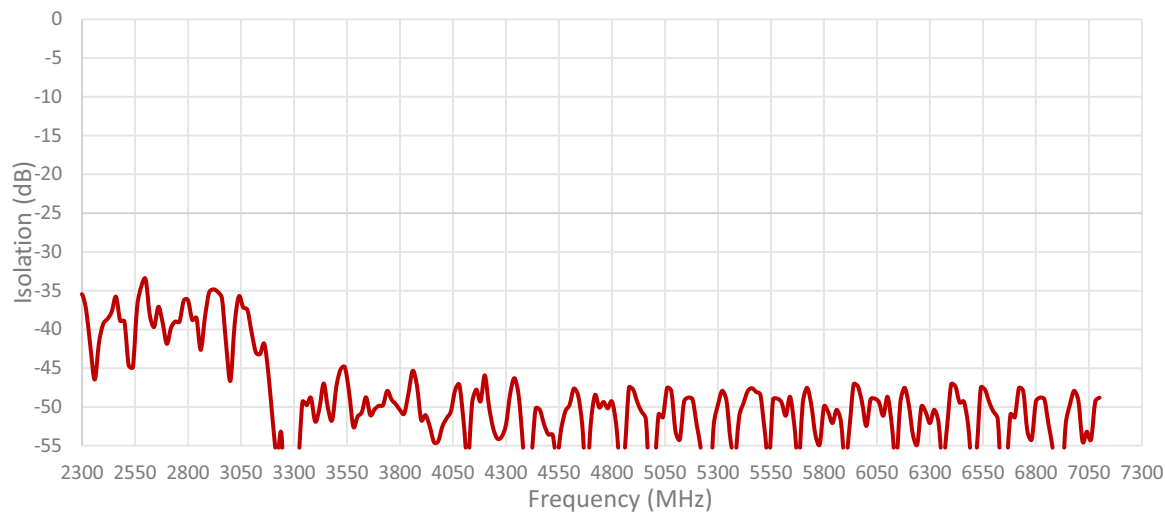
**ISOLATION FOR CABLES 5 AND 7**



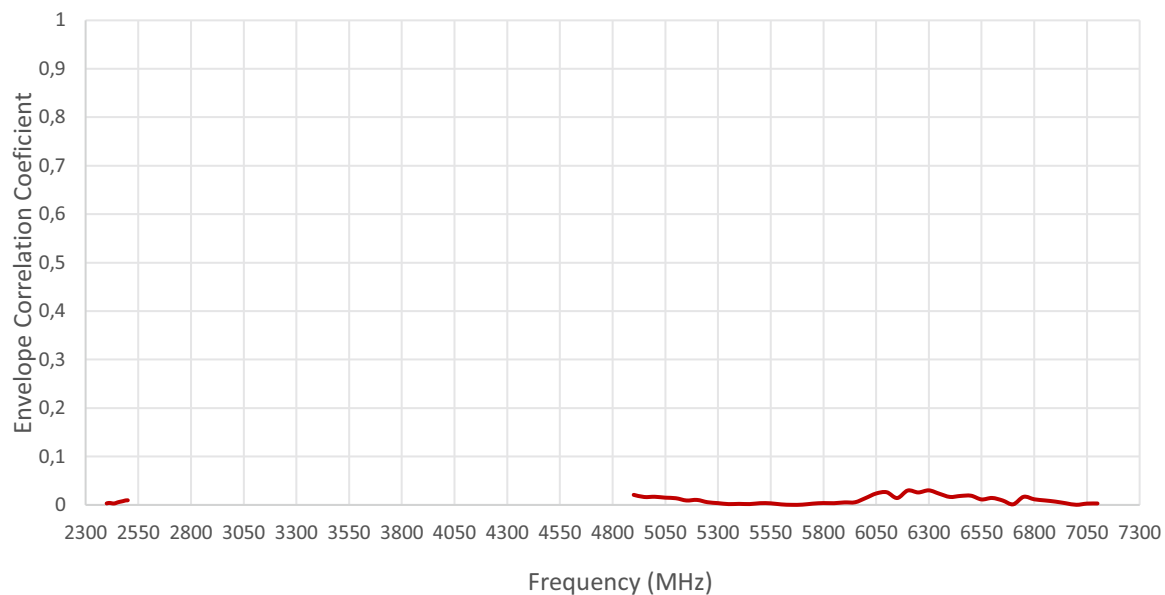
**ENVELOPE CORRELATION COEFFICIENT FOR CABLES 5 AND 7**



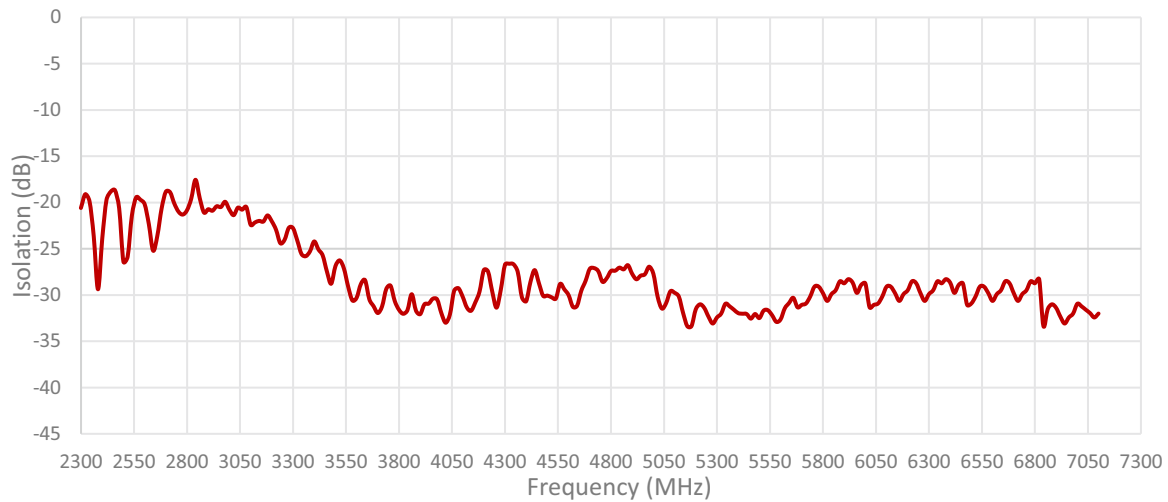
**ISOLATION FOR CABLES 5 AND 8**



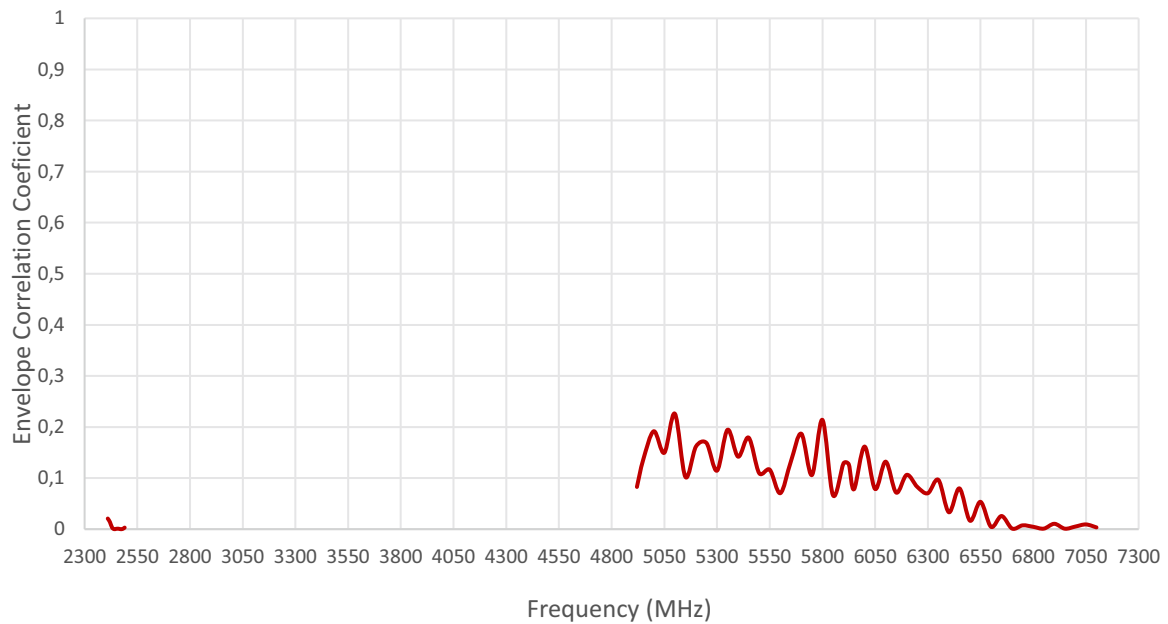
**ENVELOPE CORRELATION COEFFICIENT FOR CABLES 5 AND 8**

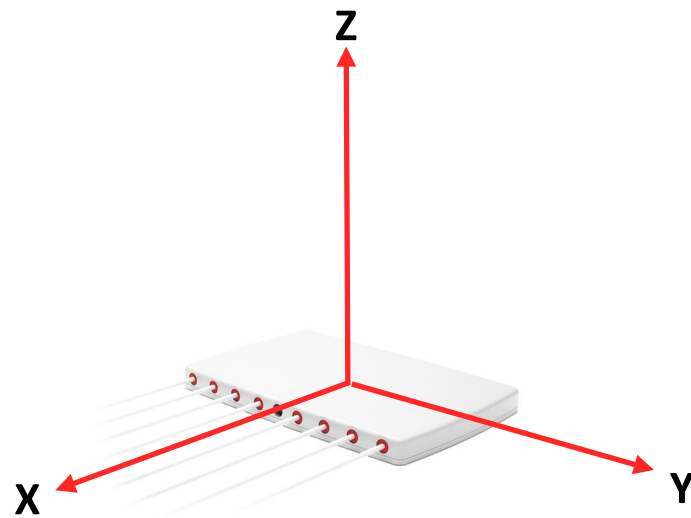


## ISOLATION FOR CABLES 6 AND 7



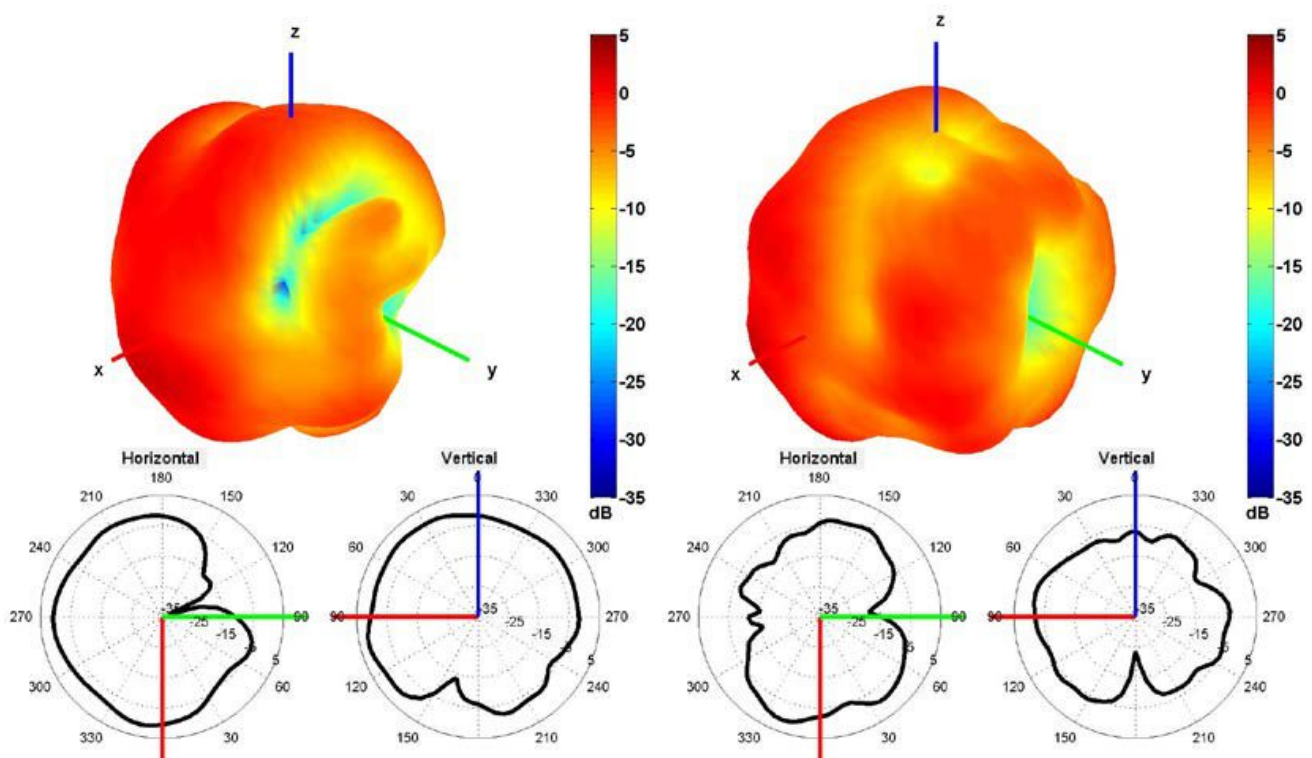
## ENVELOPE CORRELATION COEFFICIENT FOR CABLES 6 AND 7



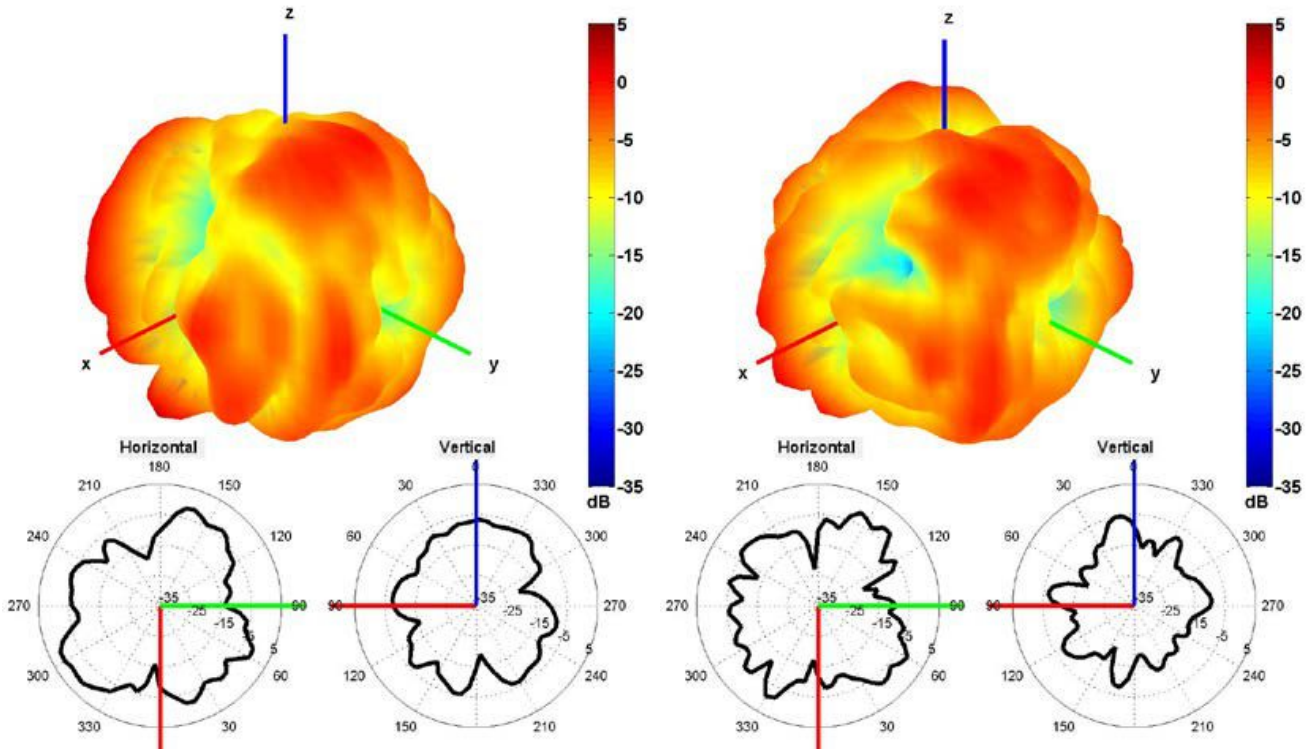


Radiation pattern reference

Cable 1: 5GNR

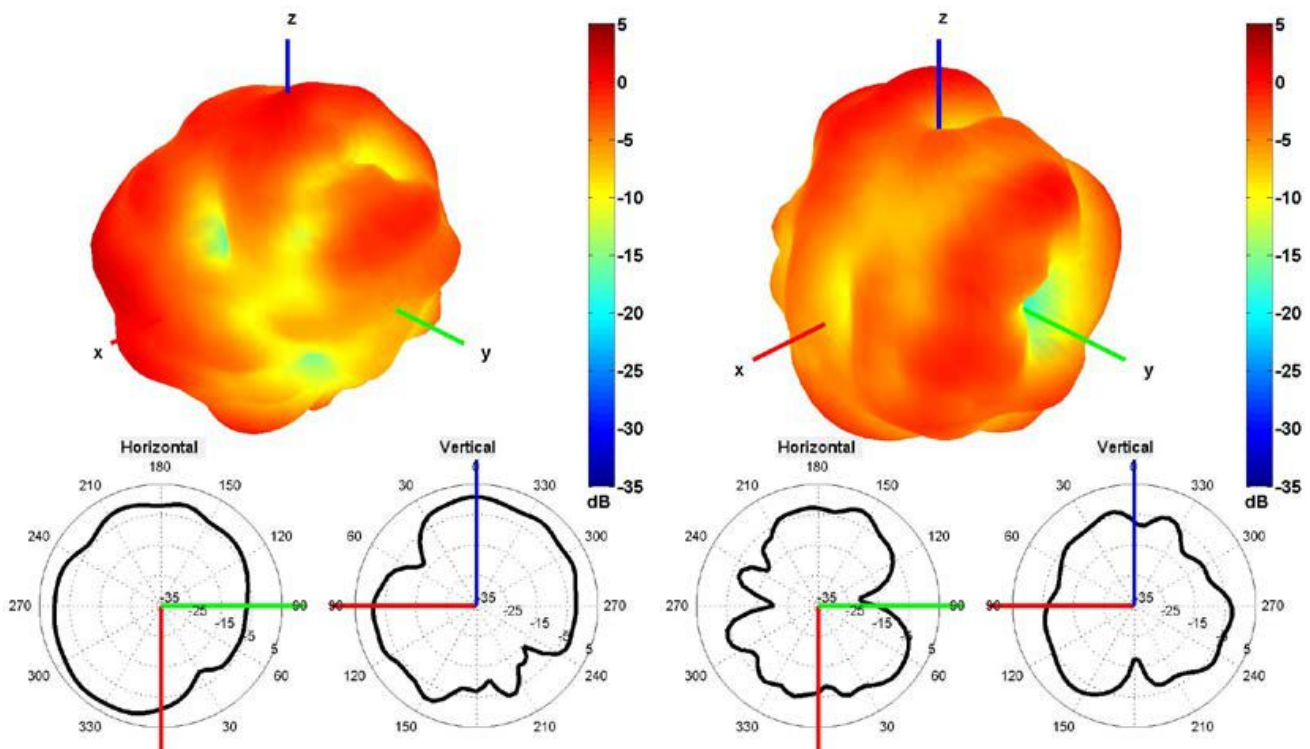


750 and 2500 MHz Radiation pattern

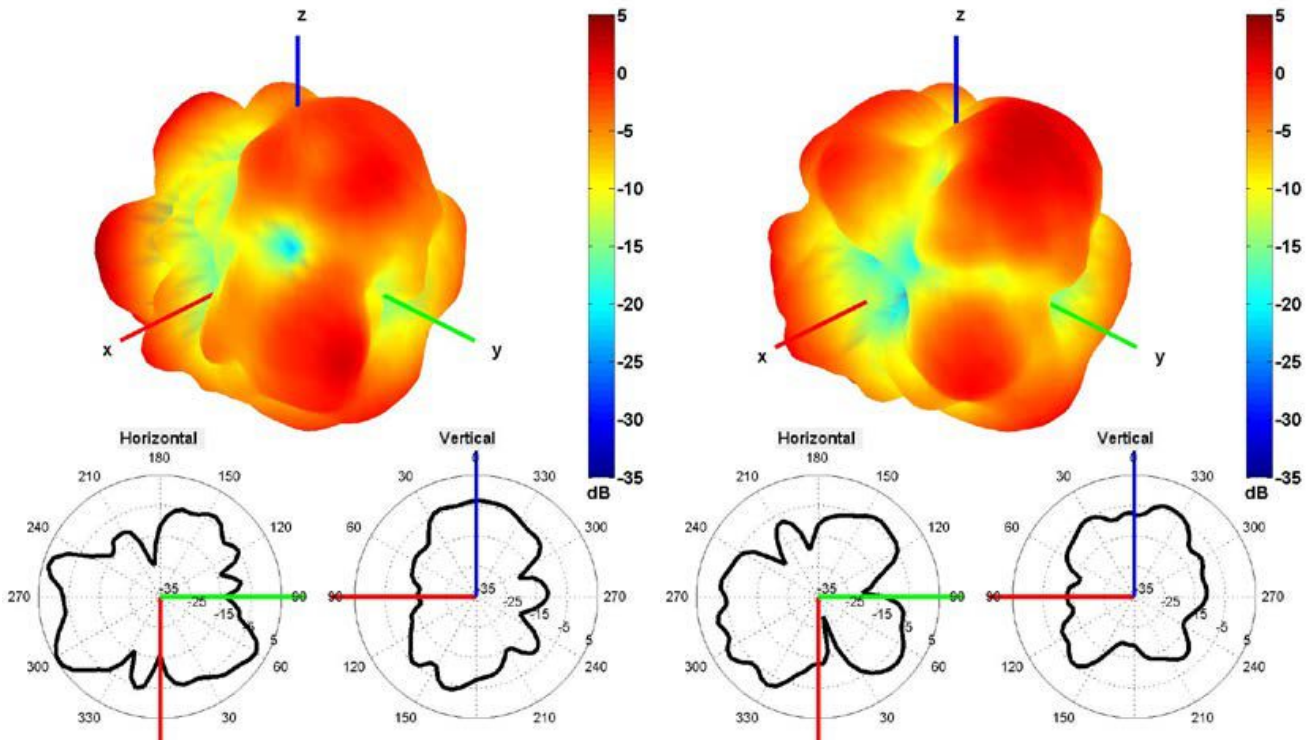


4500 and 5500 MHz Radiation pattern

Cable 2: 5GNR

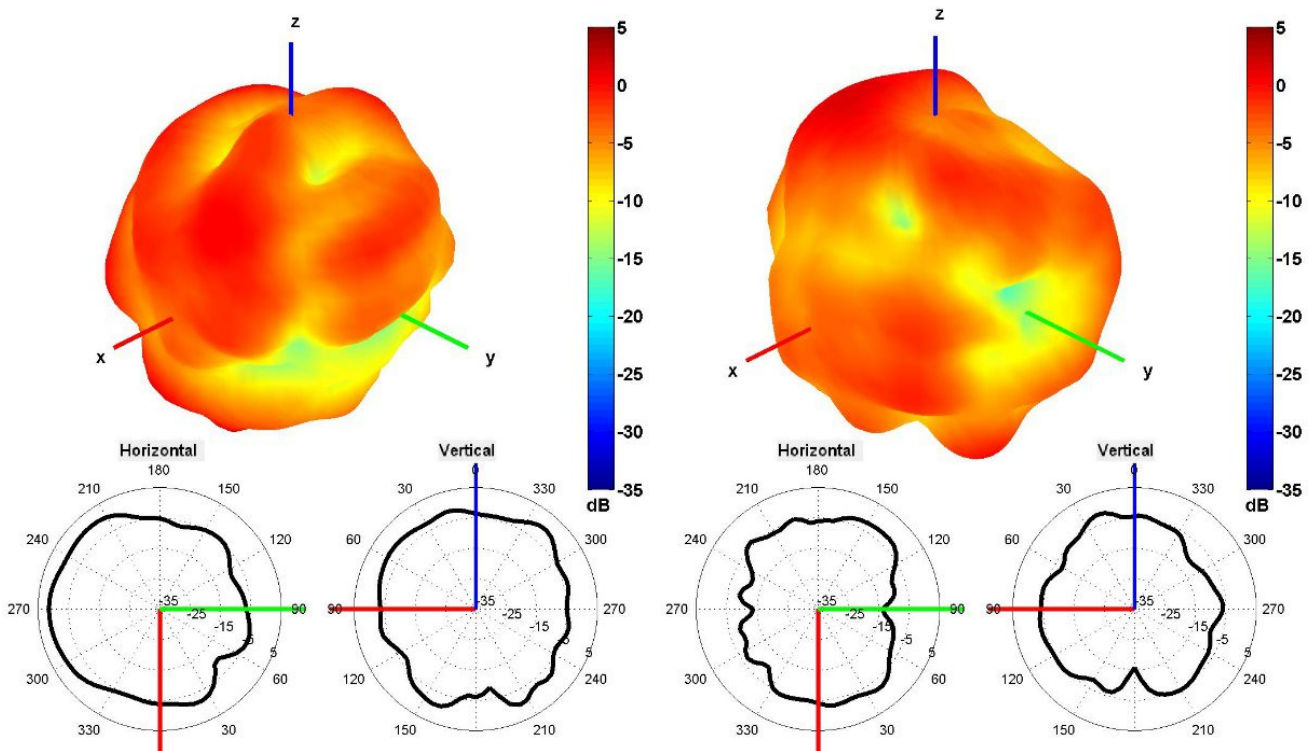


750 and 2500 MHz Radiation pattern

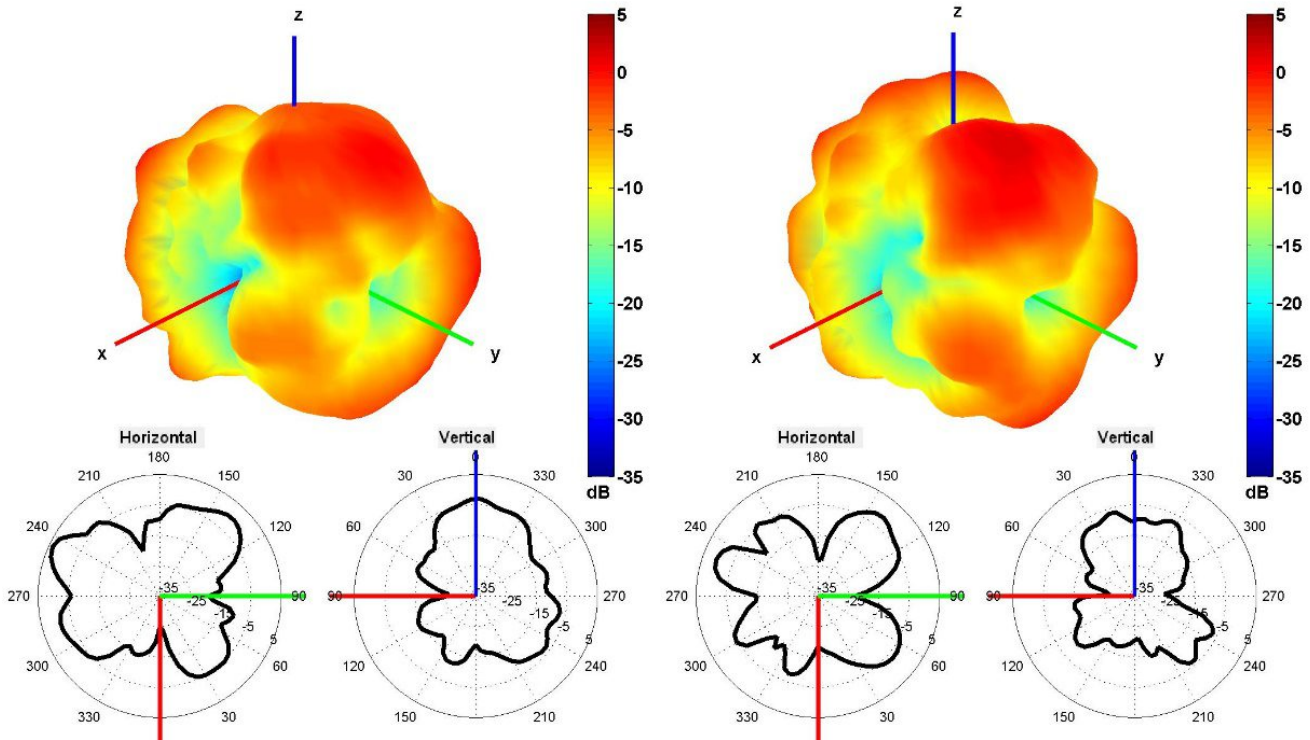


4500 and 5500 MHz Radiation pattern

Cable 3: 5GNR

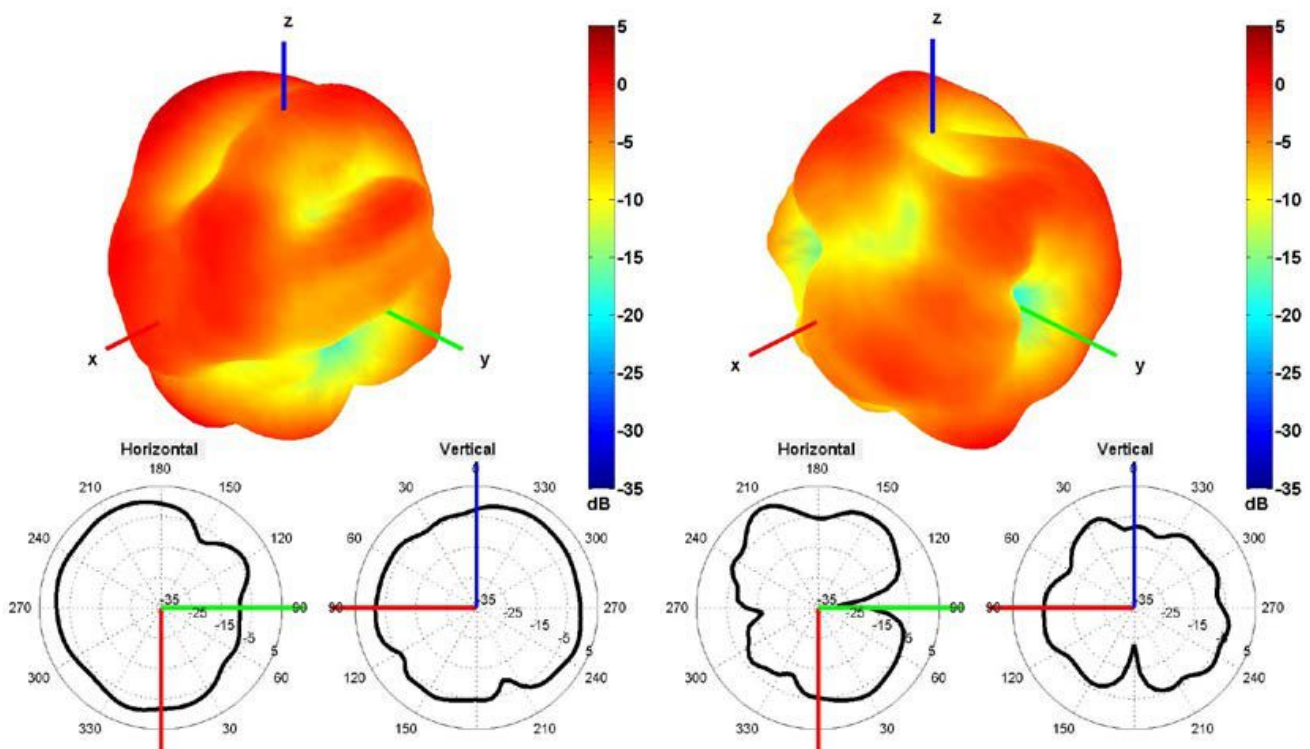


750 and 2500 MHz Radiation pattern

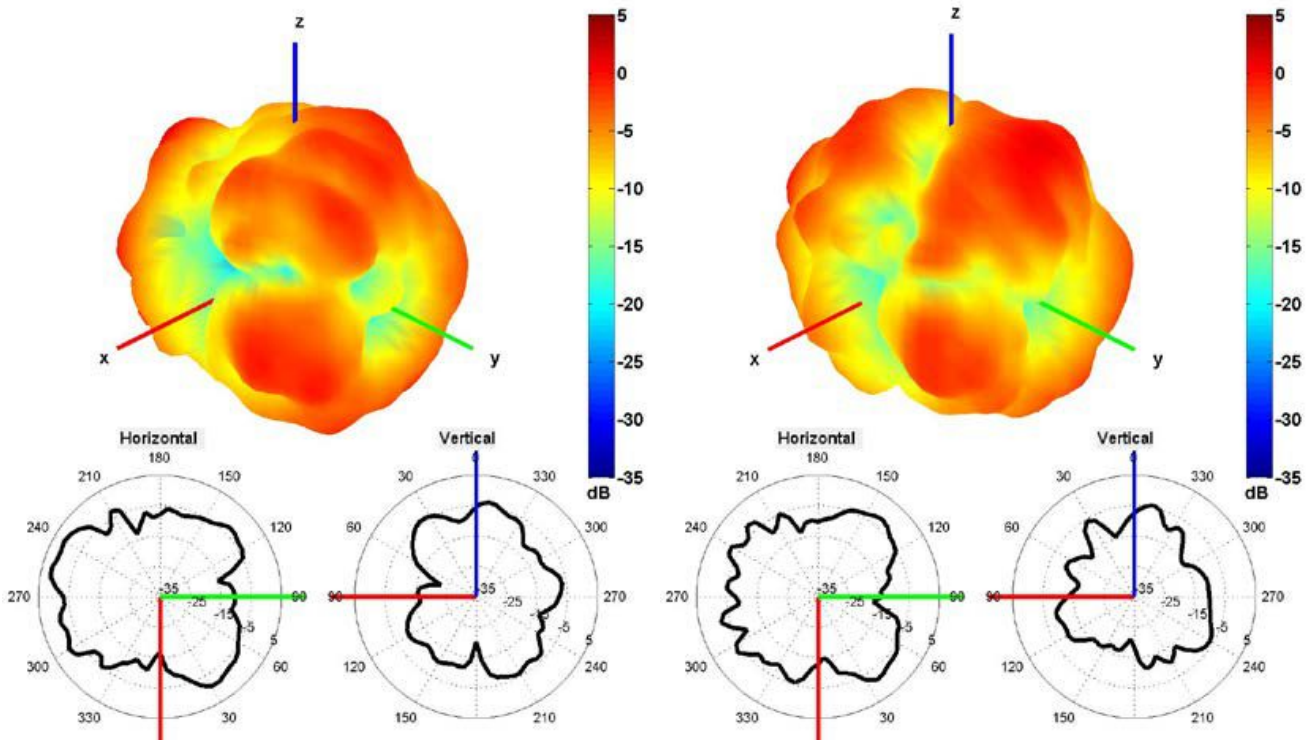


4500 and 5500 MHz Radiation pattern

Cable 4: 5GNR

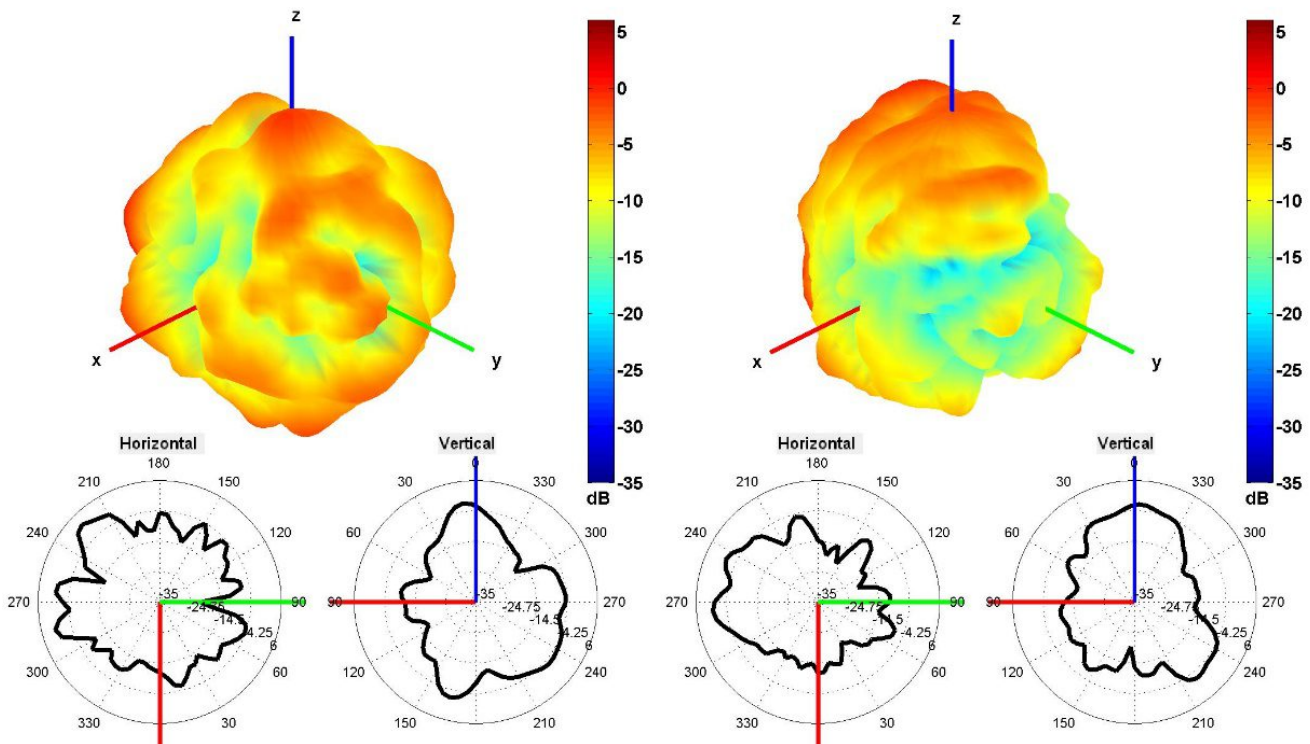


750 and 2500 MHz Radiation pattern

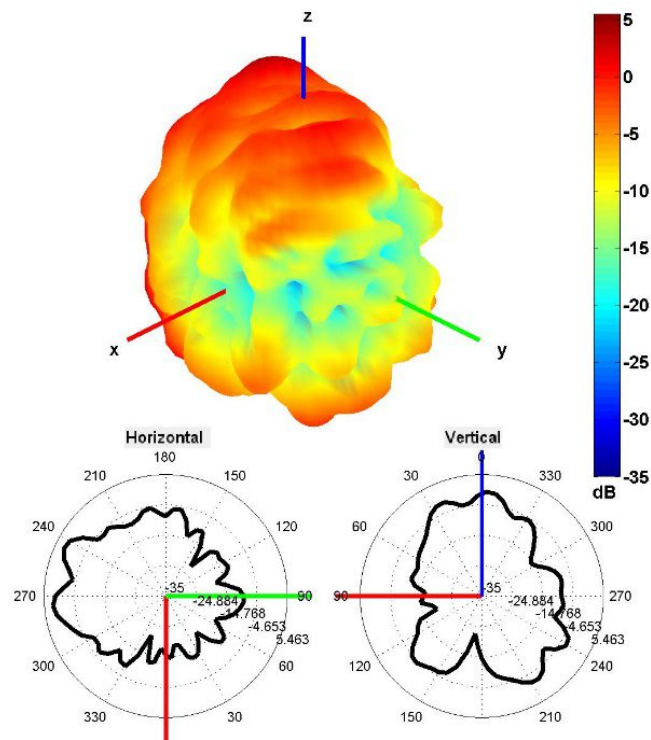


4500 and 5500 MHz Radiation pattern

Cable 5: 2.4/5.0/6.0 GHz ISM

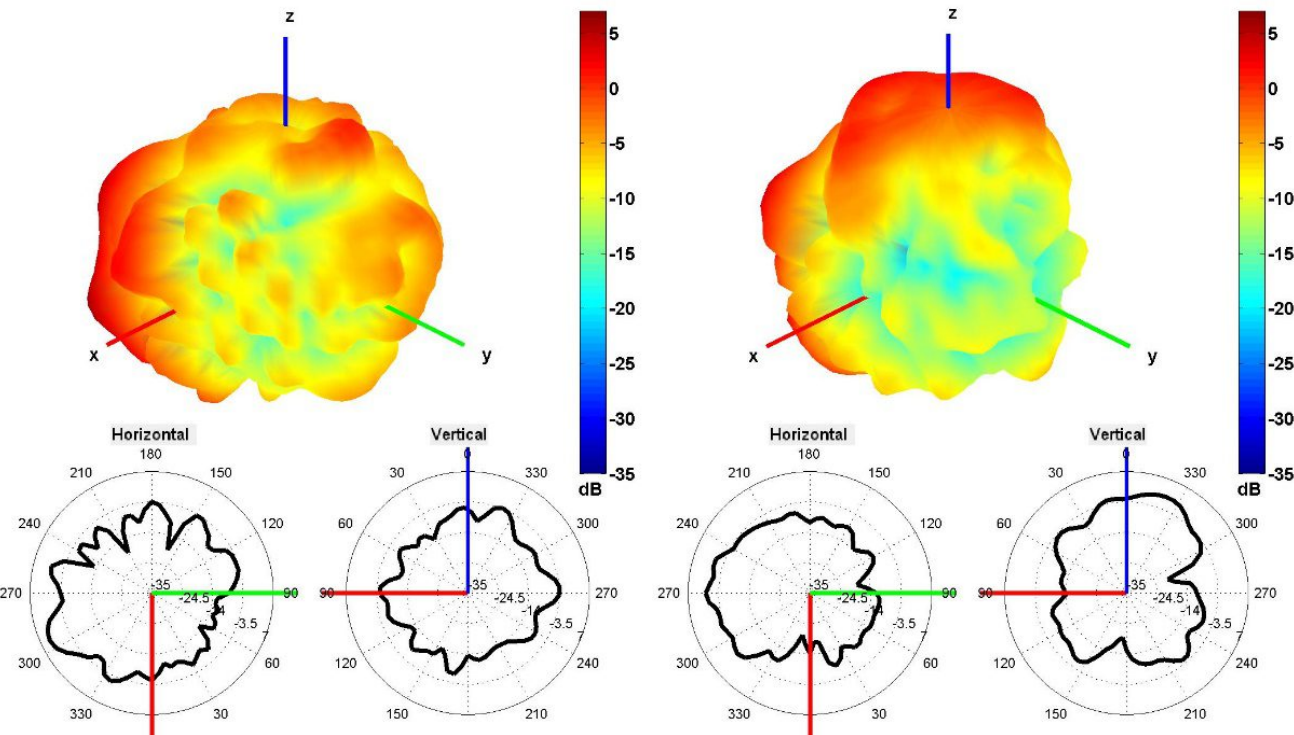


2450 and 5500 MHz Radiation pattern

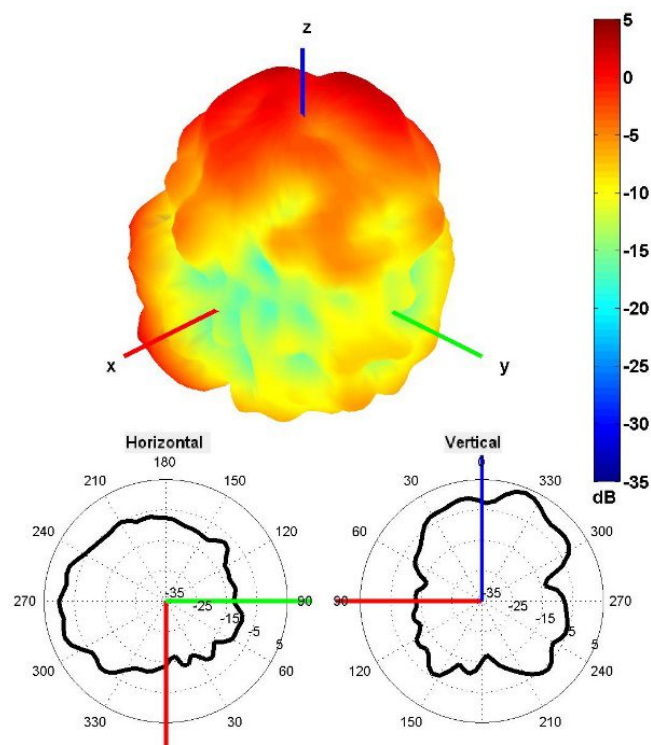


6500 MHz Radiation pattern

Cable 6: 2.4/5.0/6.0 GHz ISM

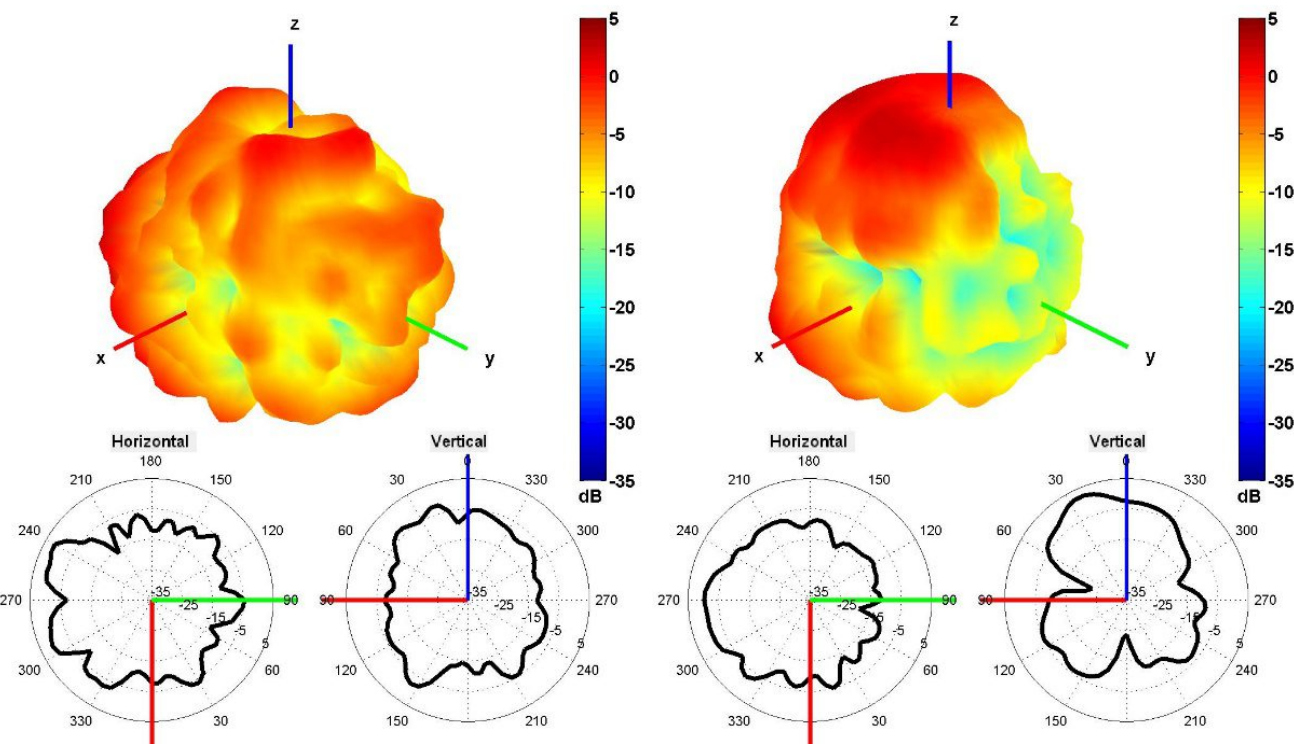


2450 and 5500 MHz Radiation pattern

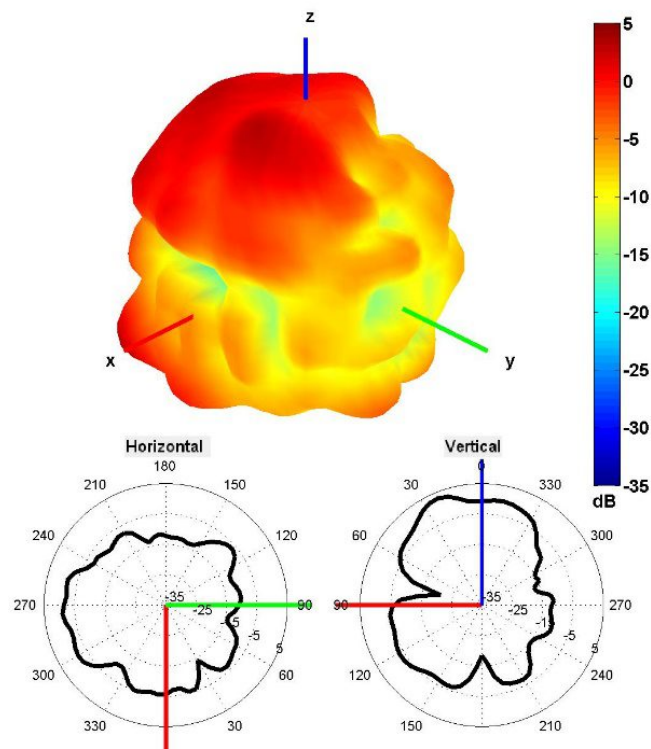


6500 MHz Radiation pattern

Cable 7: 2.4/5.0/6.0 GHz ISM

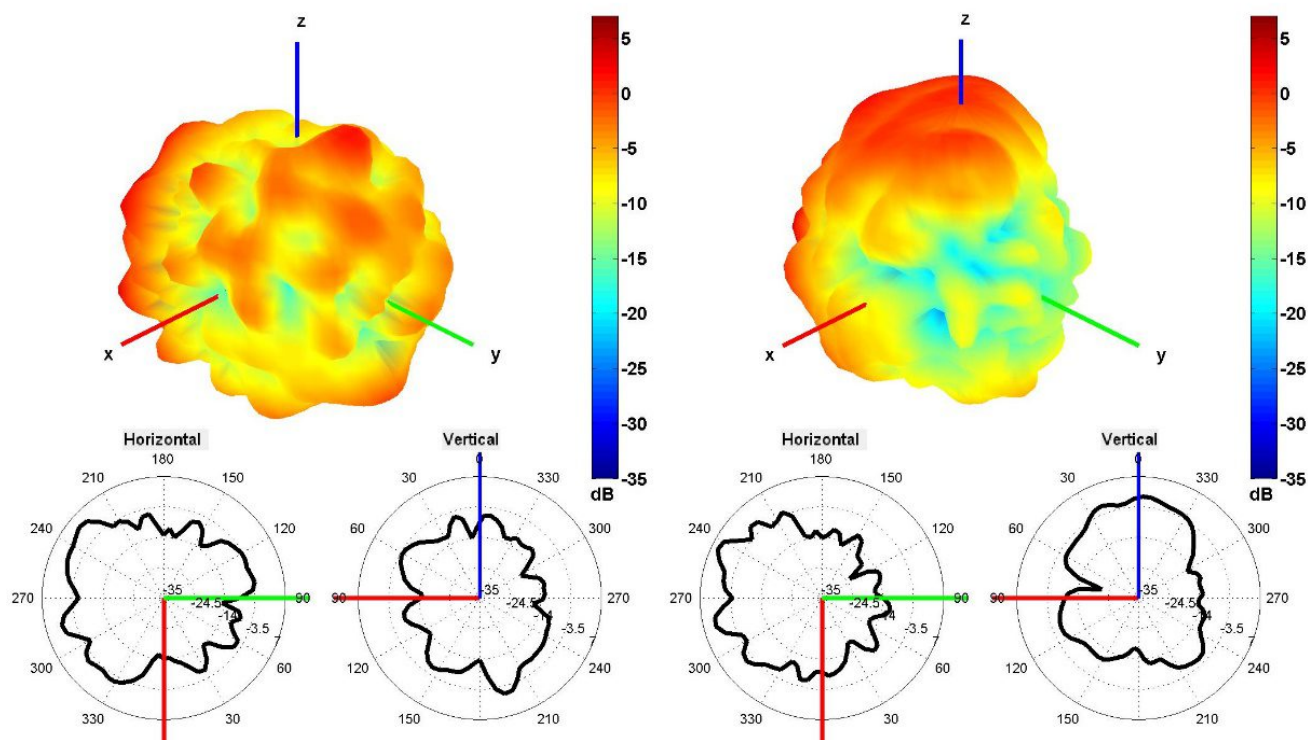


2450 and 5500 MHz Radiation pattern

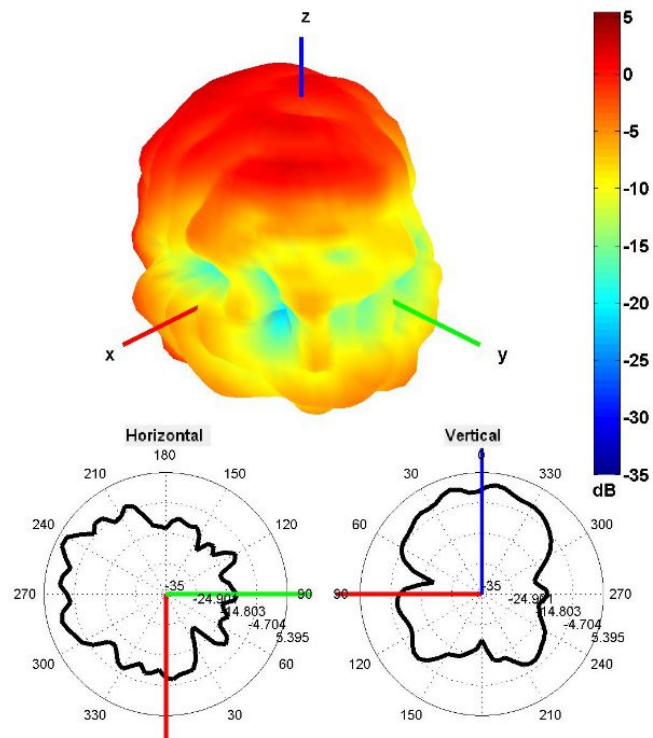


6500 MHz Radiation pattern

Cable 8: 2.4/5.0/6.0 GHz ISM

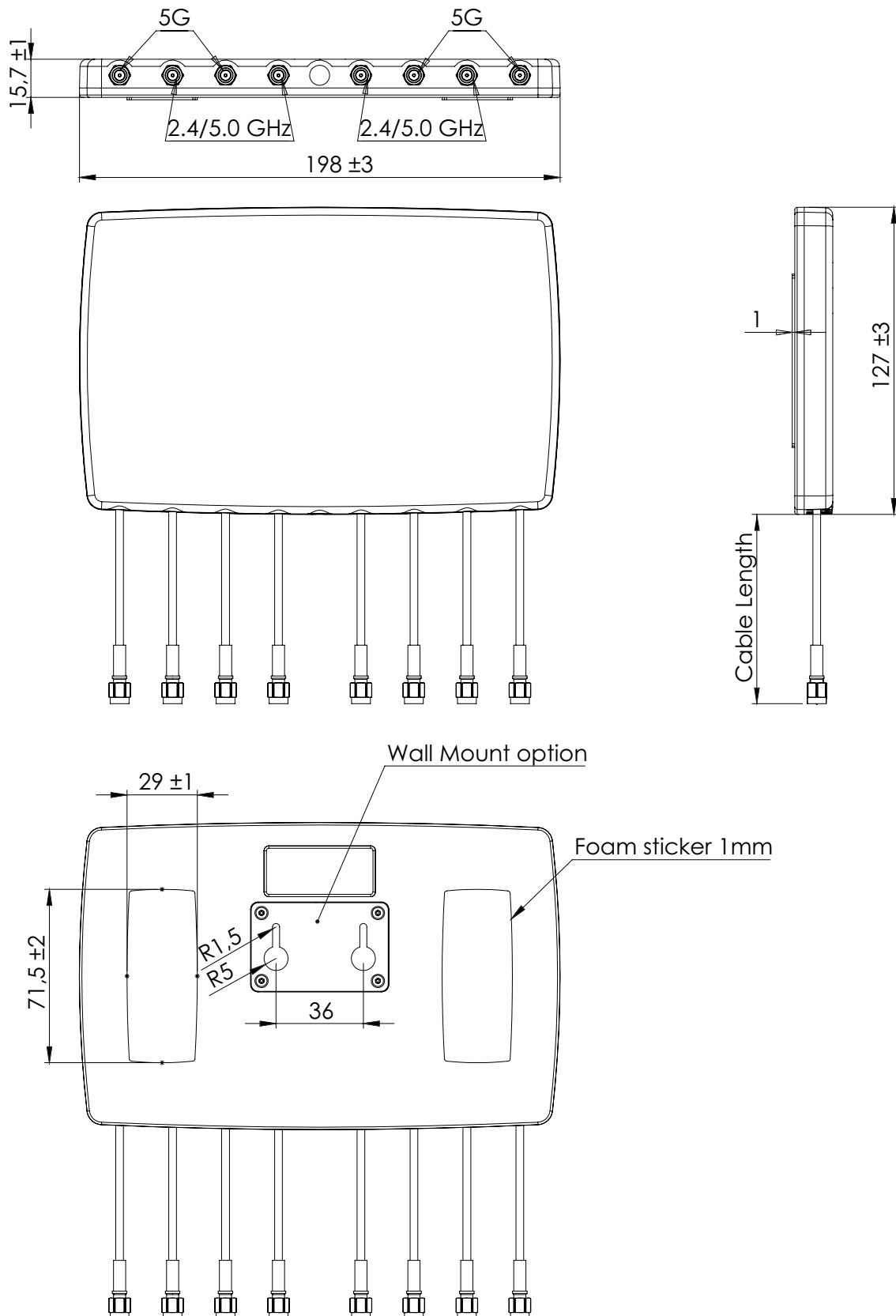


2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

## 4. Antenna drawings



## 5. Antenna Images

