# Antenna Performance Description

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|---|---|
| Applicant: | Xiaomi Communications Co., Ltd |
| Product description: | Mobile Phone |
| Model Name: | 2210132G |
| FCC ID: | 2AFZZ132G |
| Test date: | 2022/8/31 |

# 1. Antenna information

| Antenna | Model Name | Antenna Pattern | Antenna Type | Manufacturer | Test party of Antenna gain |
|---|---|---|---|---|---|
| ANT1 | AL6M13 | Metal Frame | PIFA Antenna | Huizhou BYD Electronic Co., Ltd. | Xiaomi Campus, No.33 Xierqi Middle Road, Haidian District, Beijing |
| ANT2 | AL6M13 | Metal Frame | PIFA Antenna | Huizhou BYD Electronic Co., Ltd. | Xiaomi Campus, No.33 Xierqi Middle Road, Haidian District, Beijing |
| NFC | DM-F1228-DF | / | FPC (Flexible Printed Circuit) antenna 48mm*58mm | Shanghai Deman Electronic Technology | / |
| WPT | / | / | Coil antenna 28mm*49.6mm | LUXSHAREICT | / |

## 2. Test data

| Band for Antenna 1 | Combo ant | |
|---|---|---|
| | Effi.(dBi) | peak gain(dBi) |
| 2.4G WIFI&Bluetooth | -7.0 | -2.57 |
| 5G (5.15-5.25GHz) | -8.55 | -4.89 |
| 5G (5.25-5.35GHz) | -6.67 | -3.05 |
| 5G (5.47-5.725GHz) | -7.73 | -2.48 |
| 5G (5.725-5.85GHz) | -7.35 | -1.35 |
| 6G (5.925-6.425GHz) | -7.8 | -0.6 |
| 6G (6.425-6.525GHz) | -8.4 | -3.7 |
| 6G (6.525-6.875GHz) | -8.3 | -0.7 |
| 6G (6.875-7.125GHz) | -8.2 | -0.7 |

S11

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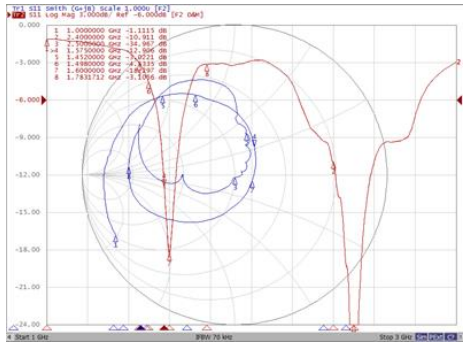
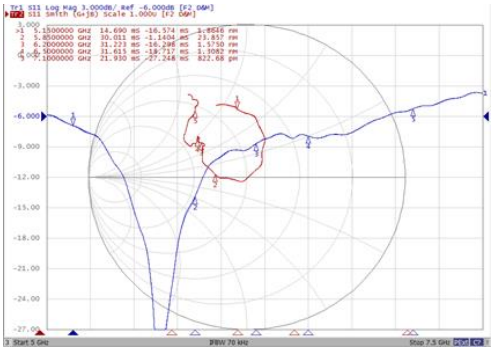
|---|---|
|  |  |
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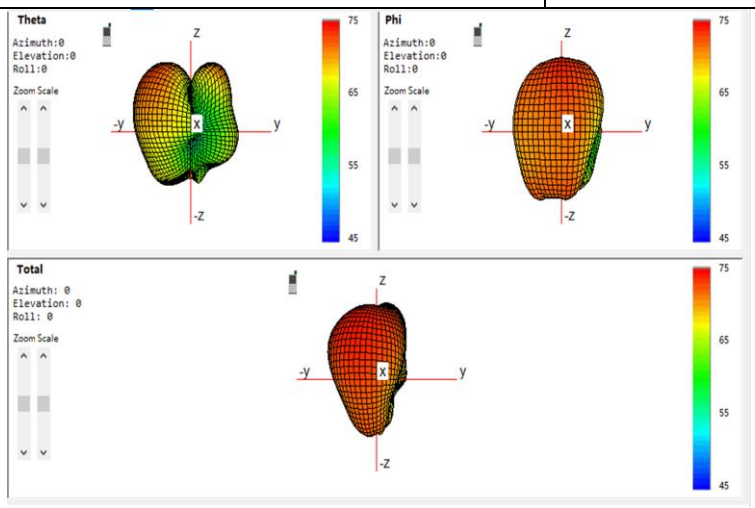
| Frequency | 2412MHz |
|---|---|




| Frequency | 2437MHz |
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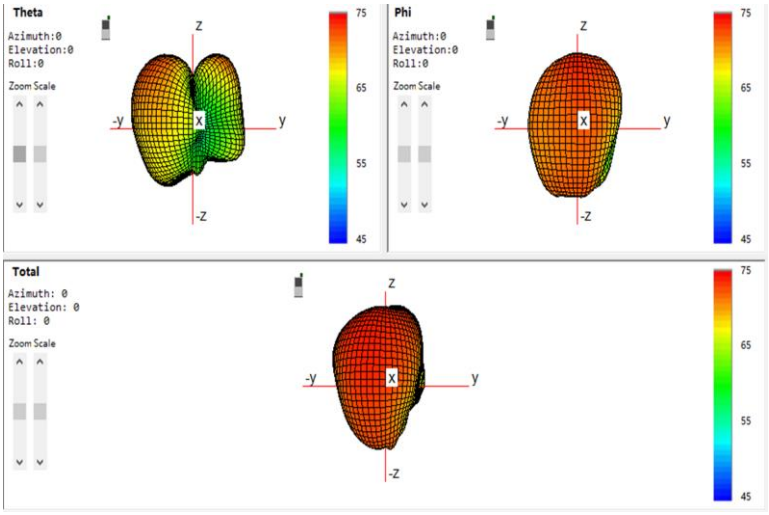


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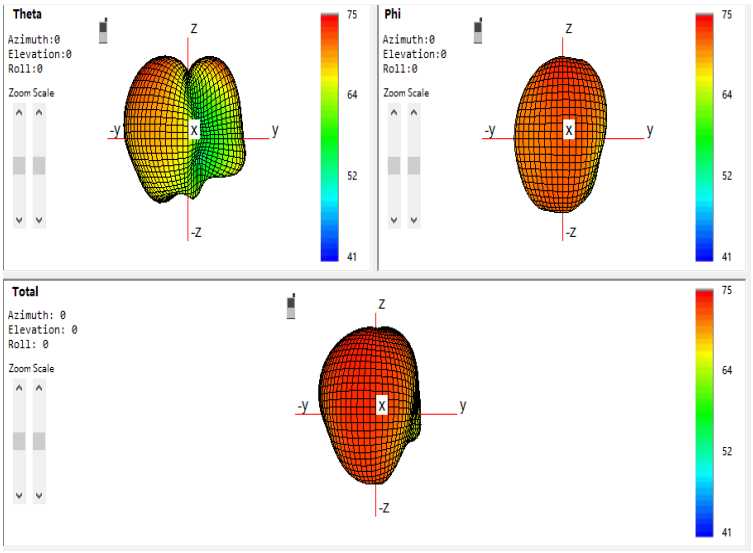

| Frequency | 5200MHz |
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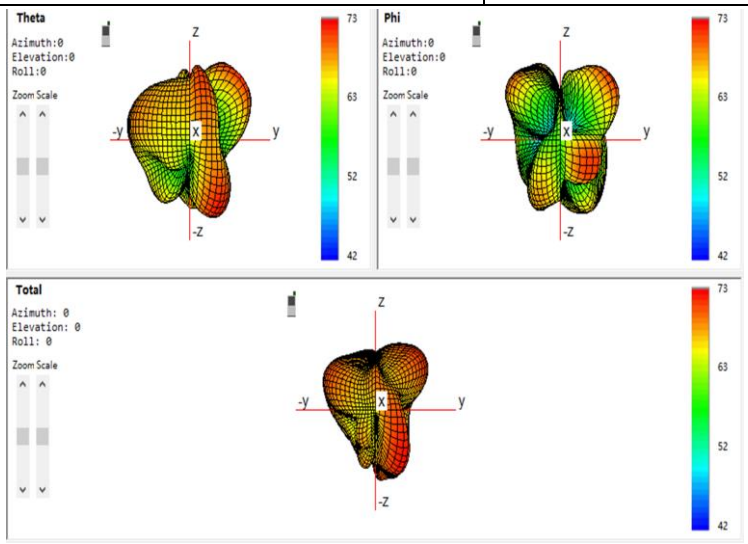


| Frequency | 5500MHz |
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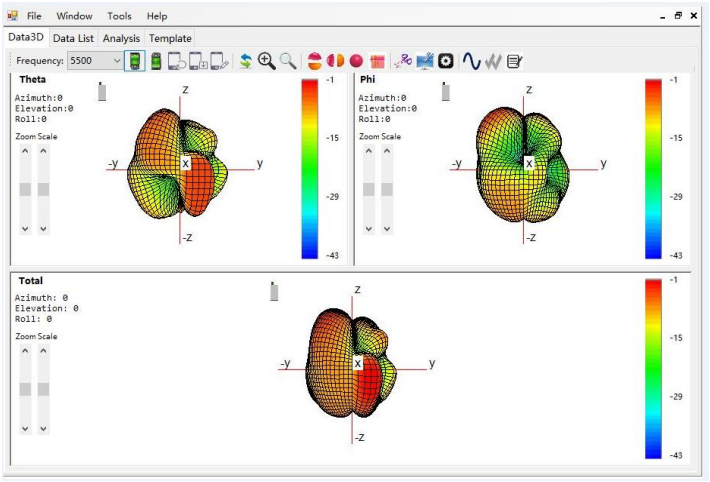
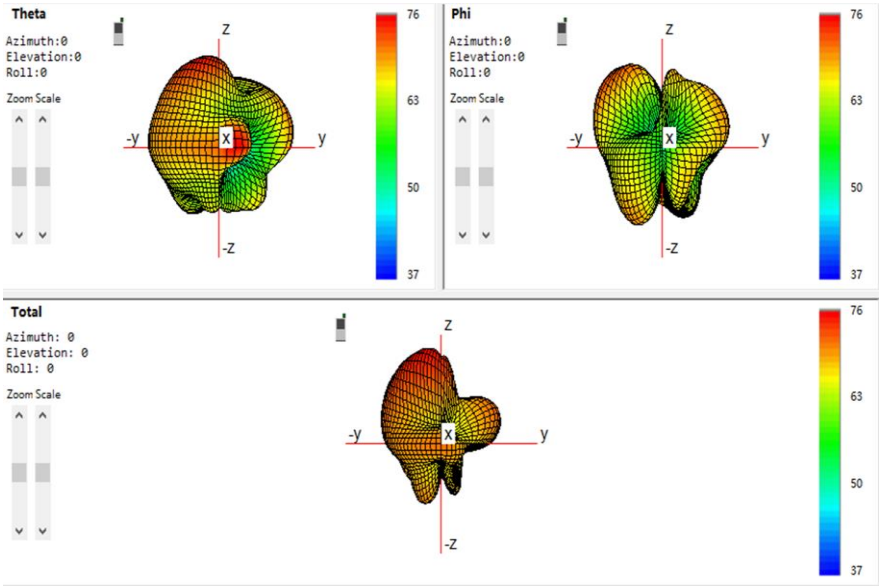
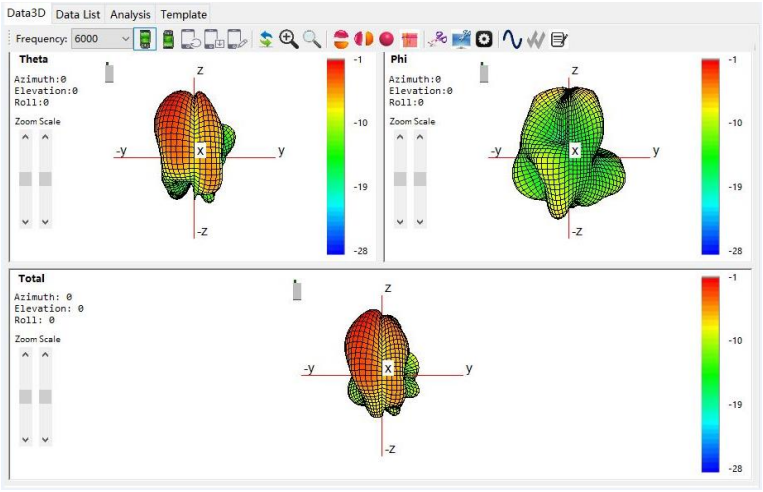


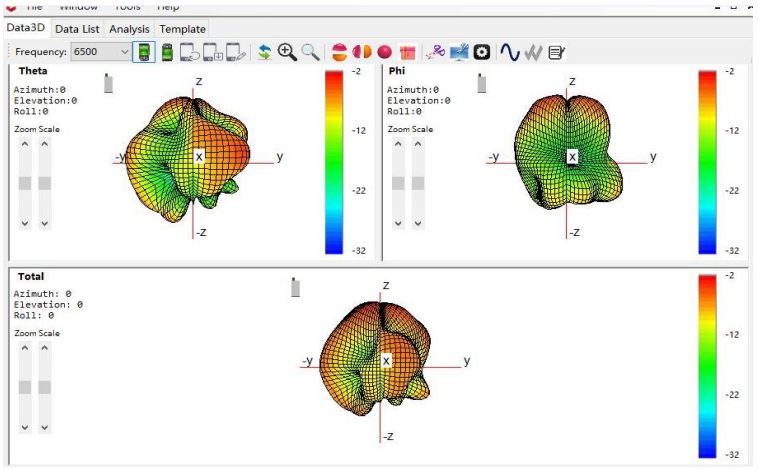

| Frequency | 5785MHz |
|---|---|



| Frequency | 6000MHz |
|---|---|




| Frequency | 6500MHz |
|---|---|

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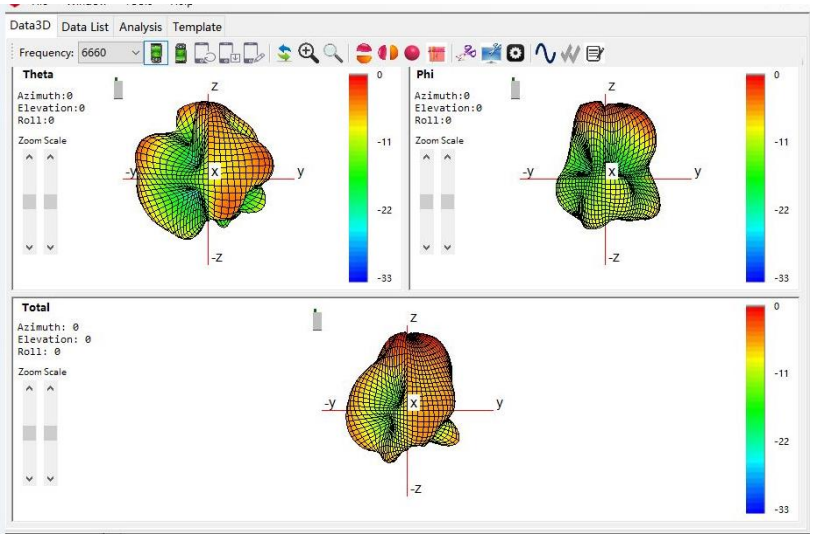
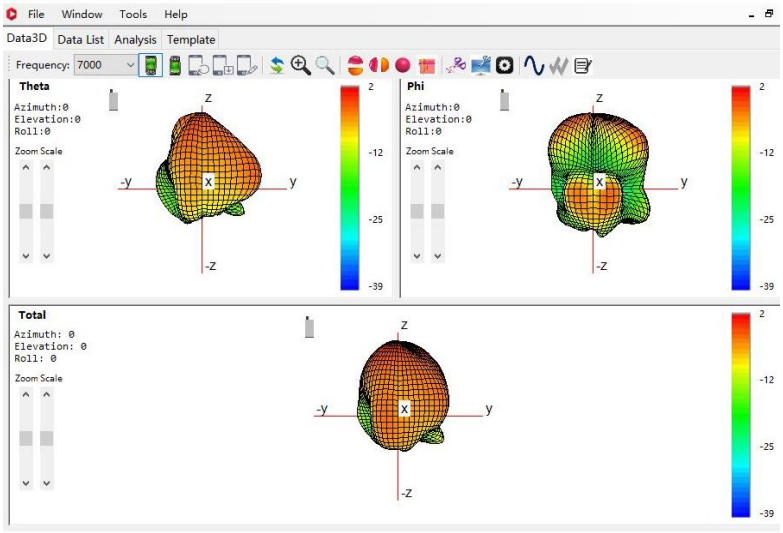
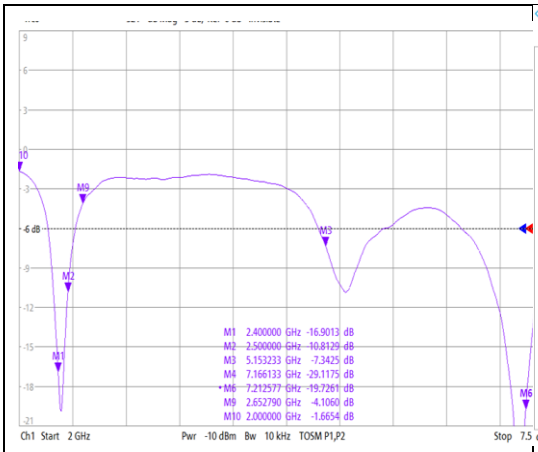
|---|---|

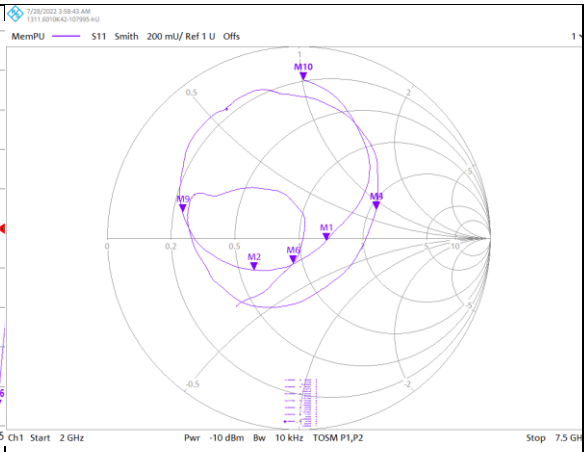


| Frequency | 7000MHz |
|---|---|

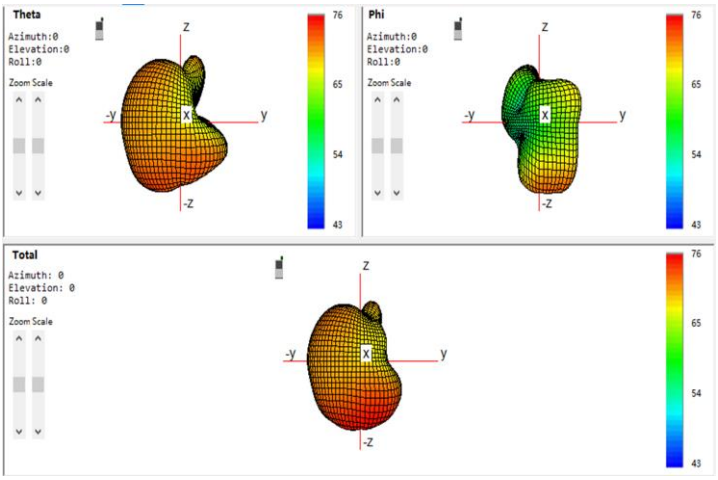



| Band for Antenna 2 | Combo ant | |
|---|---|---|
| | Effi.(dBi) | peak gain(dBi) |
| 2.4G WIFI&BT | -4.9 | 1.1 |
| 5G (5.15-5.25GHz) | -6.75 | -2.37 |
| 5G (5.25-5.35GHz) | -6.4 | -2.21 |
| 5G (5.47-5.725GHz) | -5.87 | -1.26 |
| 5G (5.725-5.85GHz) | -6.55 | -1.86 |
| 6G (5.925-6.425GHz) | -6.2 | -1.8 |
| 6G (6.425-6.525GHz) | -6.9 | -1.3 |
| 6G (6.525-6.875GHz) | -6.2 | -1.0 |
| 6G (6.875-7.125GHz) | -6.1 | -1.5 |

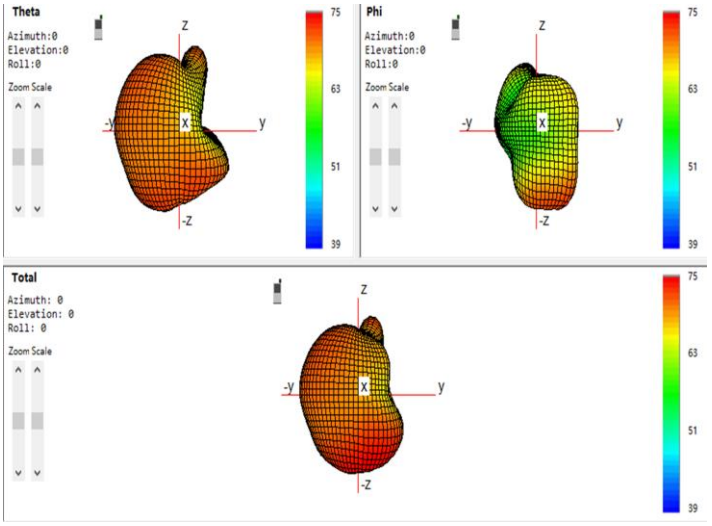


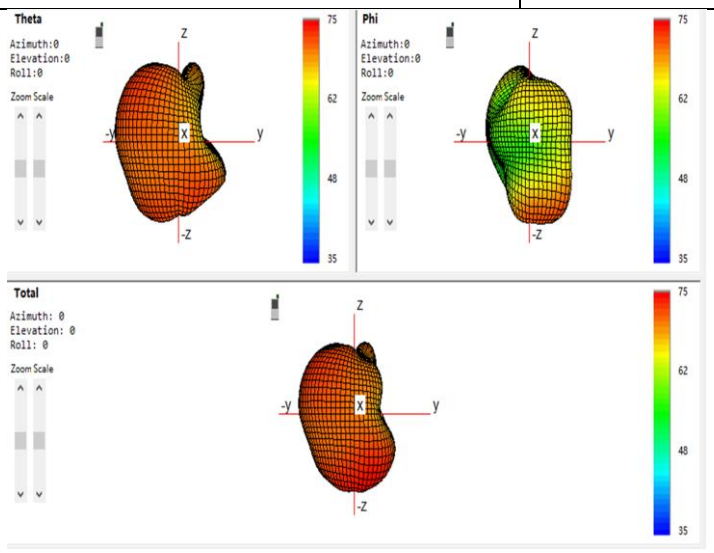
| Frequency | 2412MHz |
|---|---|




| Frequency | 2437MHz |
|---|---|




| Frequency | 2462MHz |
|---|---|



| Frequency | 5200MHz |
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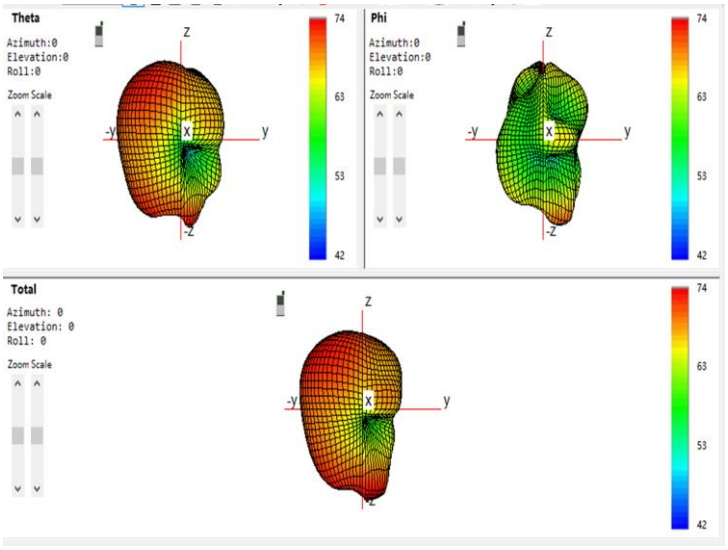
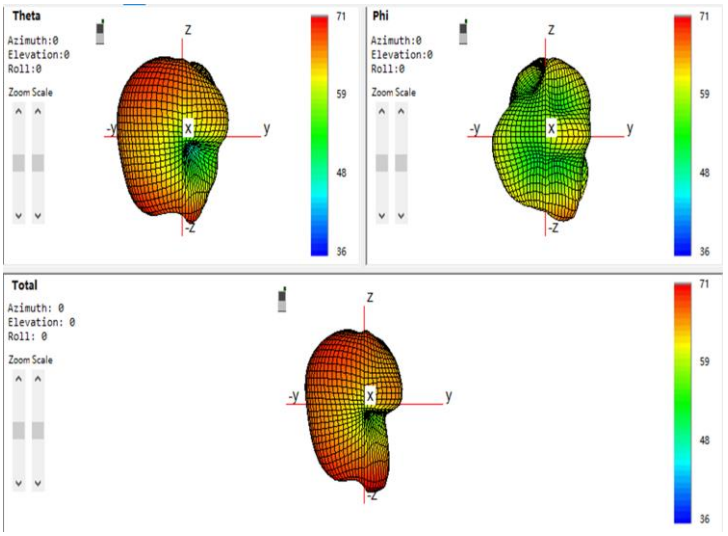
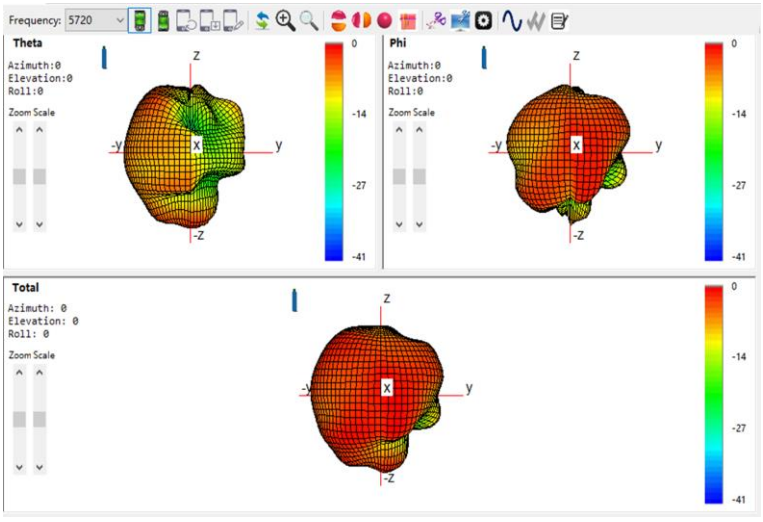



| Frequency | 5280MHz |
|---|---|




| Frequency | 5720MHz |
|---|---|



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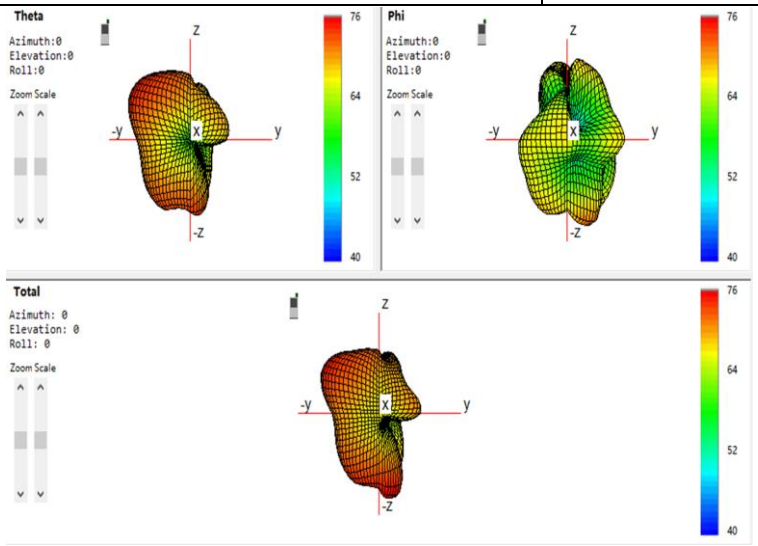
|---|---|
| Frequency | 5785MHz |
|  | |
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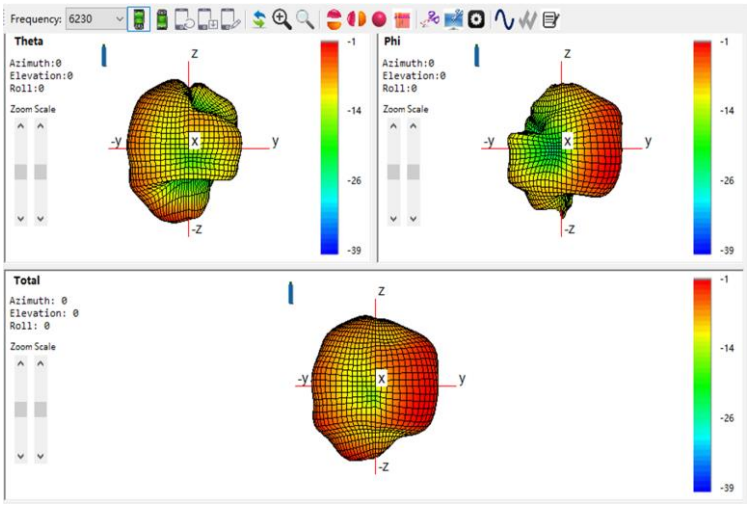
|  | |
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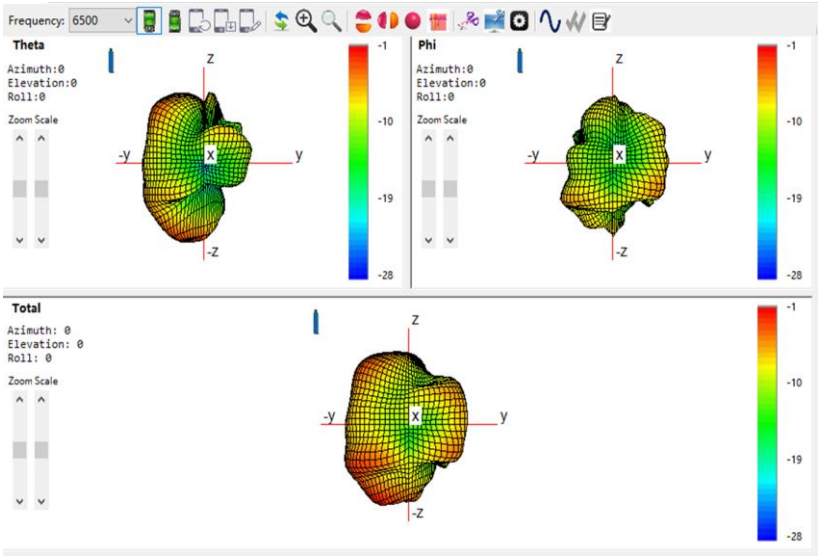
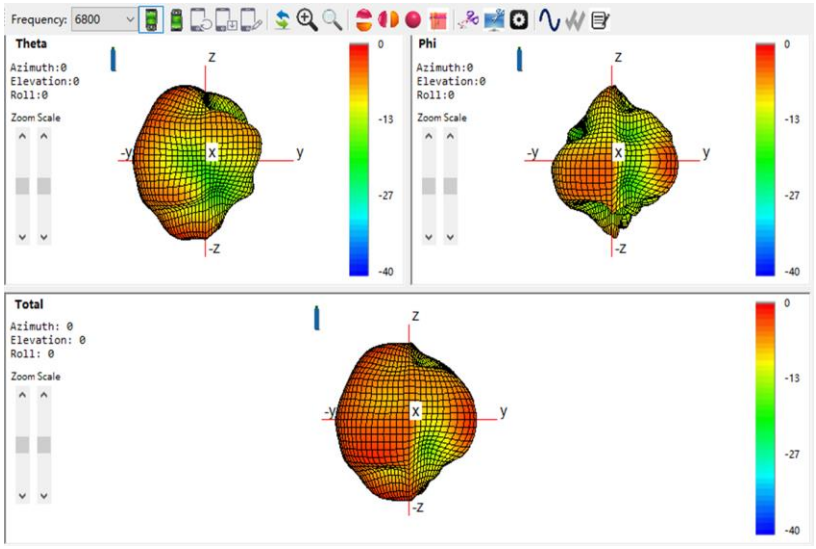
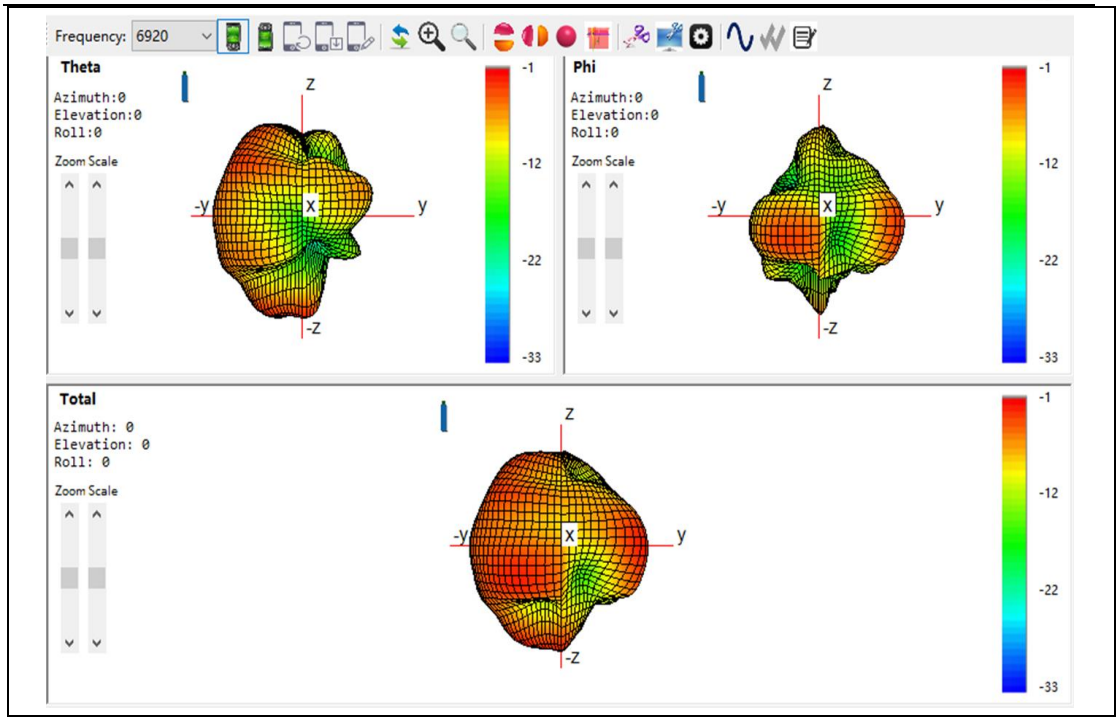



| | |
|---|---|
| Frequency | 6800MHz |




| | |
|---|---|
| Frequency | 6920MHz |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Theta
Azimuth:0
Elevation:0
Roll:0
Zoom Scale
Z
-Y
X
Y
-Z
-1
-12
-22
-33
Phi
Azimuth:0
Elevation:0
Roll:0
Zoom Scale
Z
-Y
X
Y
-Z
-1
-12
-22
-33
Total
Azimuth: 0
Elevation: 0
Roll: 0
Zoom Scale
Z
-Y
X
Y
-Z
-1
-12
-22
-33

## 3. Main Test Instruments

| Name | Manufacturer | Model name | Serial Number | Cal., Date | Exp., Date |
|---|---|---|---|---|---|
| E5071C | KEYSIGHT | E5071C | MY46733949 | 2021/12/13 | 2022/12/12 |

End of Test Report