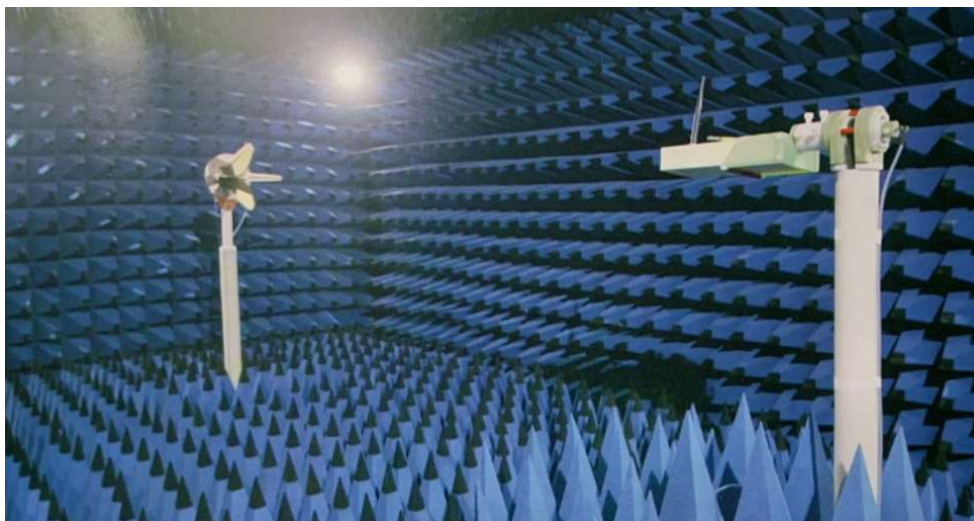
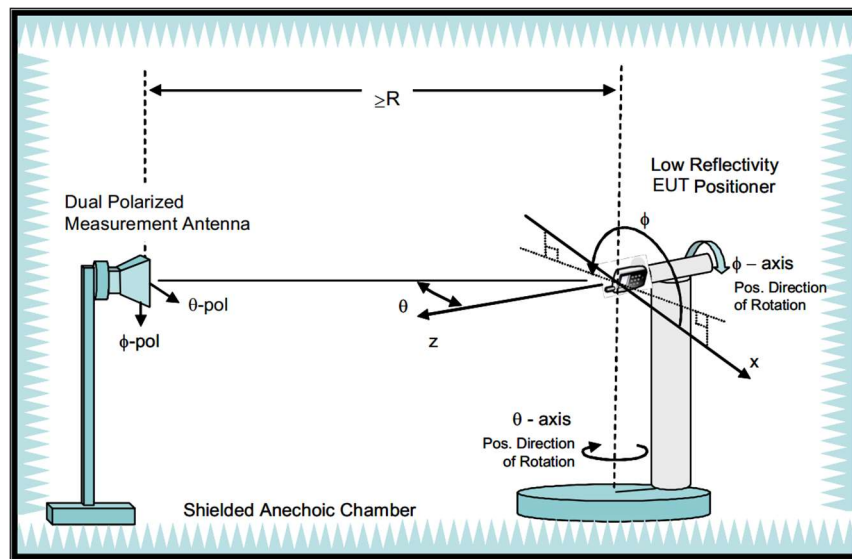


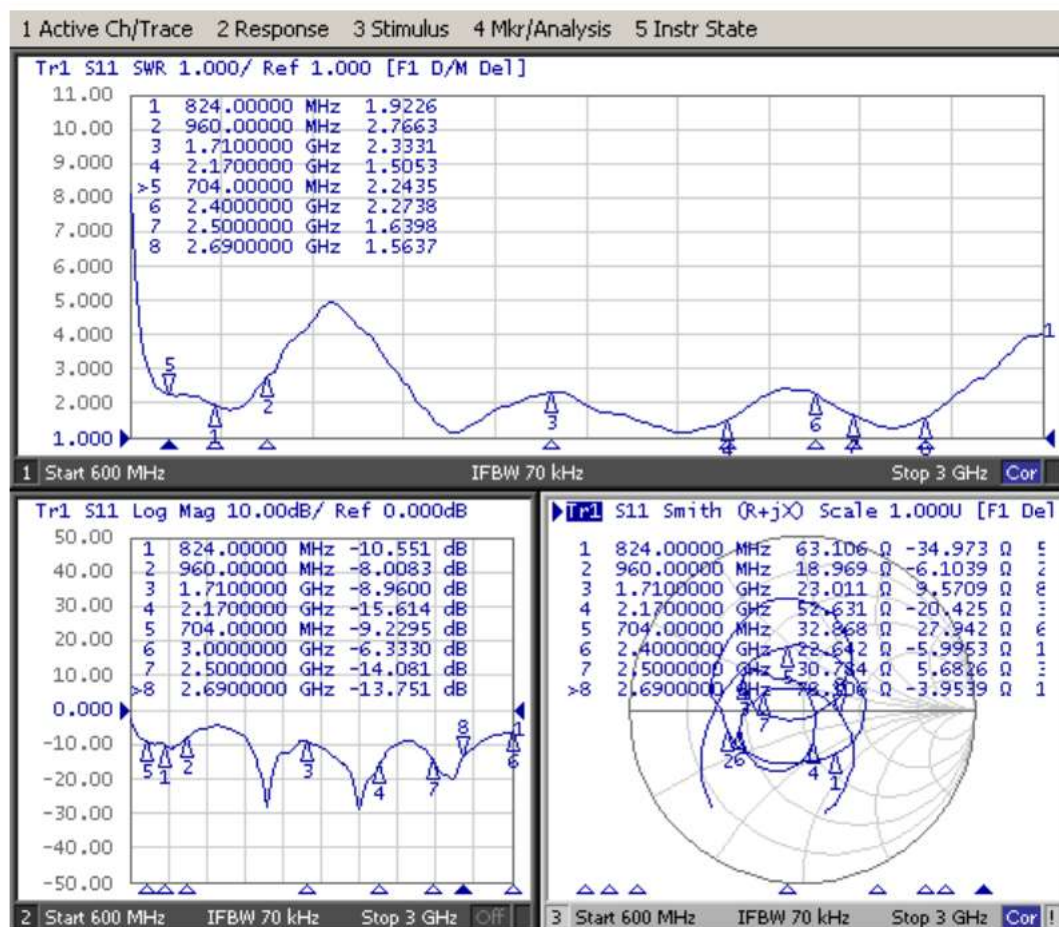
## Antenna\_Approval Sheet\_A

|                 |                                                                                    |
|-----------------|------------------------------------------------------------------------------------|
| Product Model   | HMEA10076-R520-L                                                                   |
| Product photos  |  |
| Electrical Data |                                                                                    |
| Frequency       | 700MHz-960MHz, 1710MHz-2690MHz                                                     |
| VSWR            | $\leq 2.0$                                                                         |
| Antenna Gain    | 700MHz-960MHz: 3.85dBi, 1710MHz-2690MH:2.05dBi                                     |
| Impedance       | 50 ohm                                                                             |
| Polarization    | vertical                                                                           |
| Power(W)        | 50W                                                                                |
| Mechanical Data |                                                                                    |
| Antenna size    | 158*6.2mm                                                                          |
| RF Cable        | RG174                                                                              |
| Connector       | SMA-J                                                                              |
| Shell material  | ABS                                                                                |

## 1、Test Environment



## 2、 VSWR



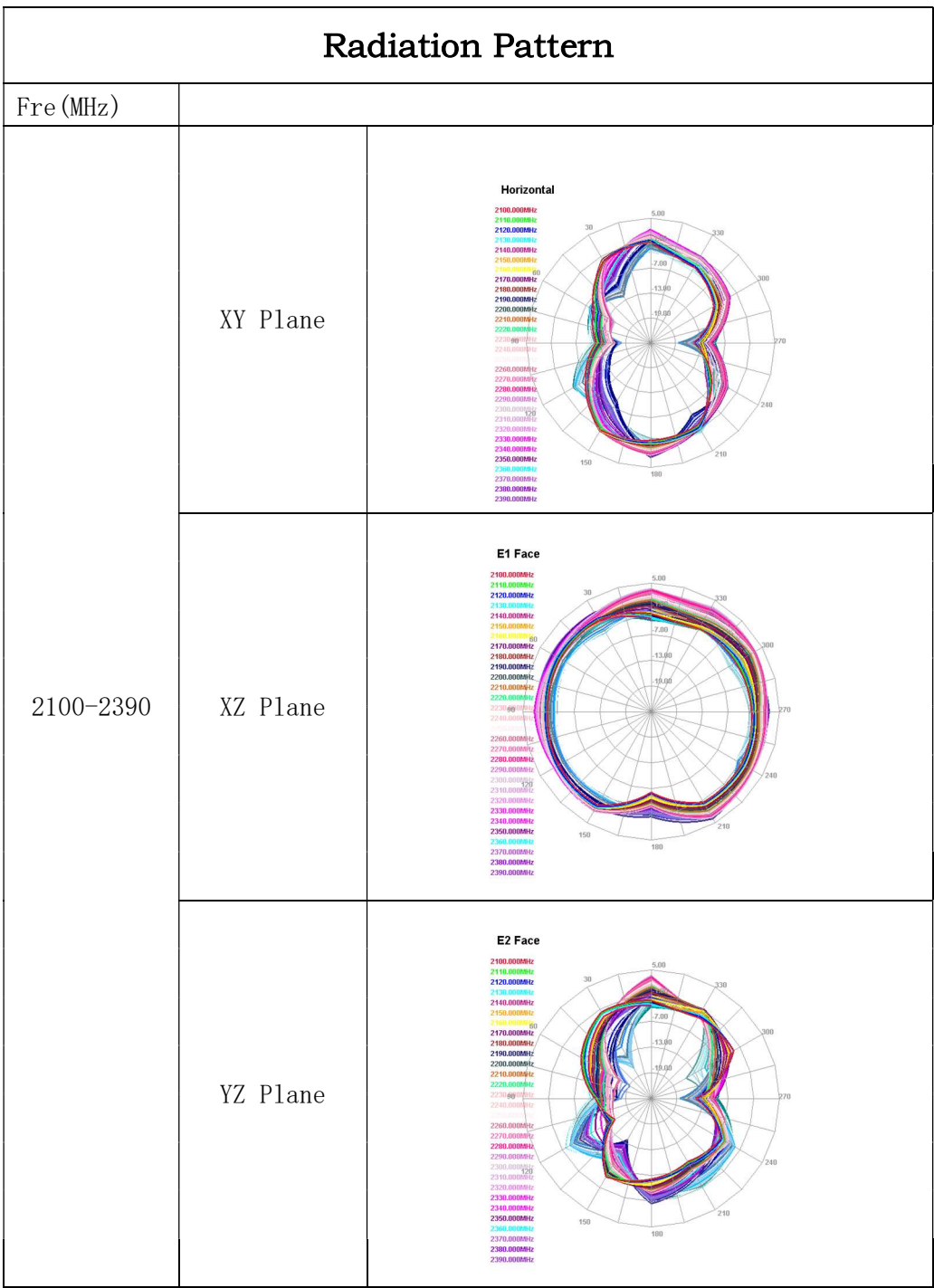
## 3、 Efficiency & Peak Gain

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|------------|----------|-----------|------------|------------|----------|-----------|------------|
| 700        | 56.99    | -2.44     | 0.62       | 2050       | 33.91    | -4.7      | 0.19       |
| 750        | 50.8     | -2.94     | 0.58       | 2100       | 43.4     | -3.63     | 0.2        |
| 800        | 66.59    | -1.77     | -0.11      | 2170       | 56.63    | -2.47     | 0.76       |
| 850        | 70.8     | -1.5      | 1.37       | 2300       | 44.83    | -3.48     | 0.08       |
| 900        | 59.39    | -2.26     | 2.99       | 2350       | 45.96    | -3.38     | -0.17      |
| 960        | 61.56    | -2.11     | 3.85       | 2400       | 42.08    | -3.76     | 0.39       |
| 1710       | 38.34    | -4.16     | -1.85      | 2450       | 54.24    | -2.66     | 2.05       |
| 1750       | 33.54    | -4.74     | -1.62      | 2500       | 50.84    | -2.94     | 1.07       |
| 1800       | 38.29    | -4.17     | 0.07       | 2550       | 51.25    | -2.9      | 0.88       |
| 1850       | 56.47    | -2.48     | 0.76       | 2600       | 64.76    | -1.89     | 1.64       |
| 1900       | 46.67    | -3.31     | -0.38      | 2650       | 56.7     | -2.46     | 0.32       |
| 1950       | 49.99    | -3.01     | 0.16       | 2680       | 52.06    | -2.83     | 0.1        |
| 2000       | 42.76    | -3.69     | -0.18      | 2690       | 49.38    | -3.06     | -0.32      |

## 4、Radiation Pattern

| Radiation Pattern |          |                          |
|-------------------|----------|--------------------------|
| Fre (MHz)         |          |                          |
| 800-960           | XY Plane | <p><b>Horizontal</b></p> |
|                   | XZ Plane | <p><b>E1 Face</b></p>    |
|                   | YZ Plane | <p><b>E2 Face</b></p>    |

| Radiation Pattern |          |                          |
|-------------------|----------|--------------------------|
| Fre (MHz)         |          |                          |
| 1710-2000         | XY Plane | <p><b>Horizontal</b></p> |
|                   | XZ Plane | <p><b>E1 Face</b></p>    |
|                   | YZ Plane | <p><b>E2 Face</b></p>    |



| Radiation Pattern |          |                          |
|-------------------|----------|--------------------------|
| Fre (MHz)         |          |                          |
| 2400-2690         | XY Plane | <p><b>Horizontal</b></p> |
|                   | XZ Plane | <p><b>E1 Face</b></p>    |
|                   | YZ Plane | <p><b>E2 Face</b></p>    |

5、Mechanical Drawings

