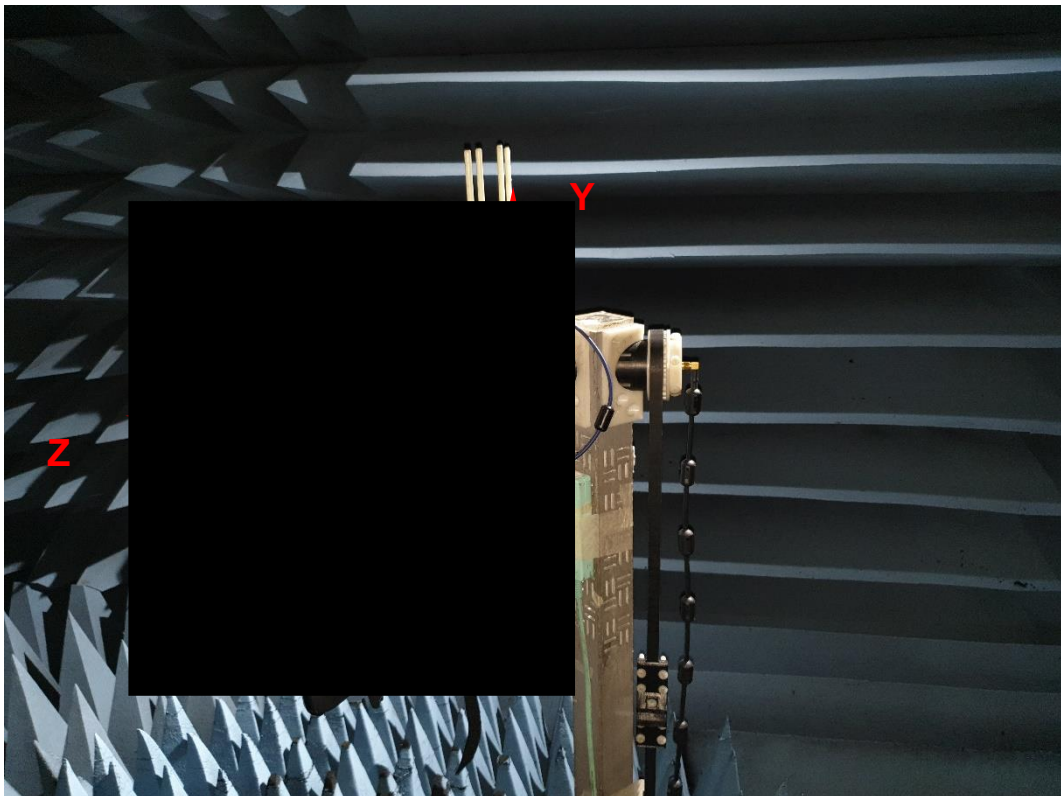
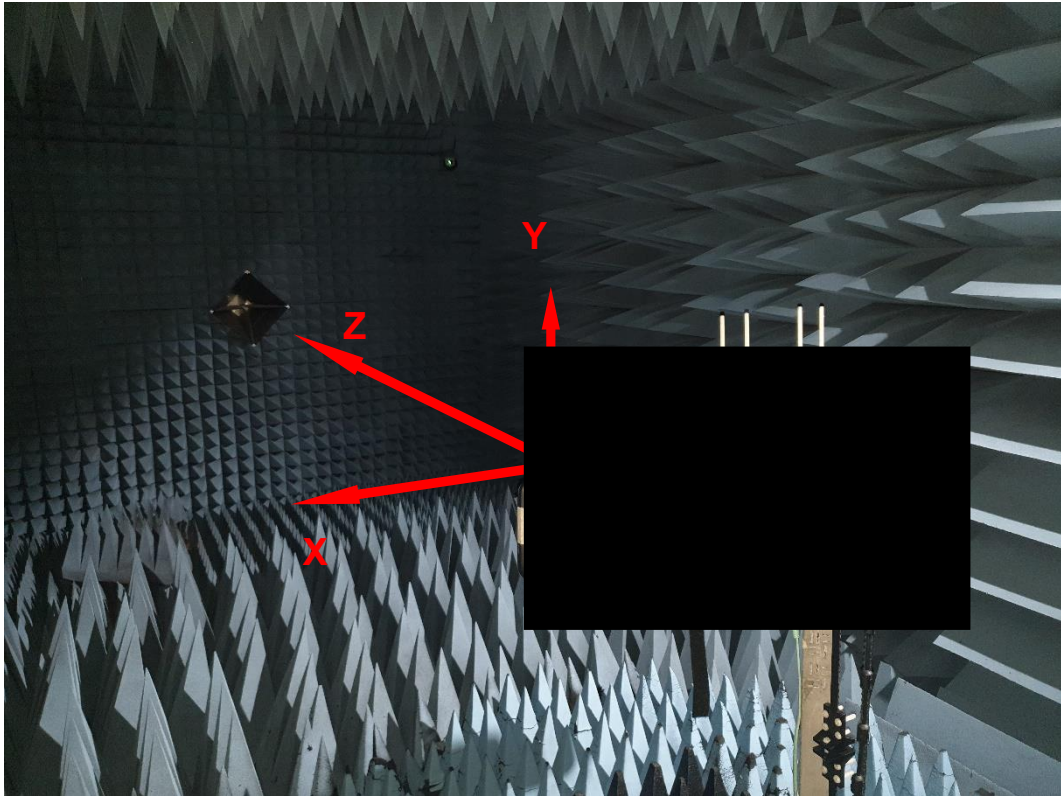


# Antenna Specification

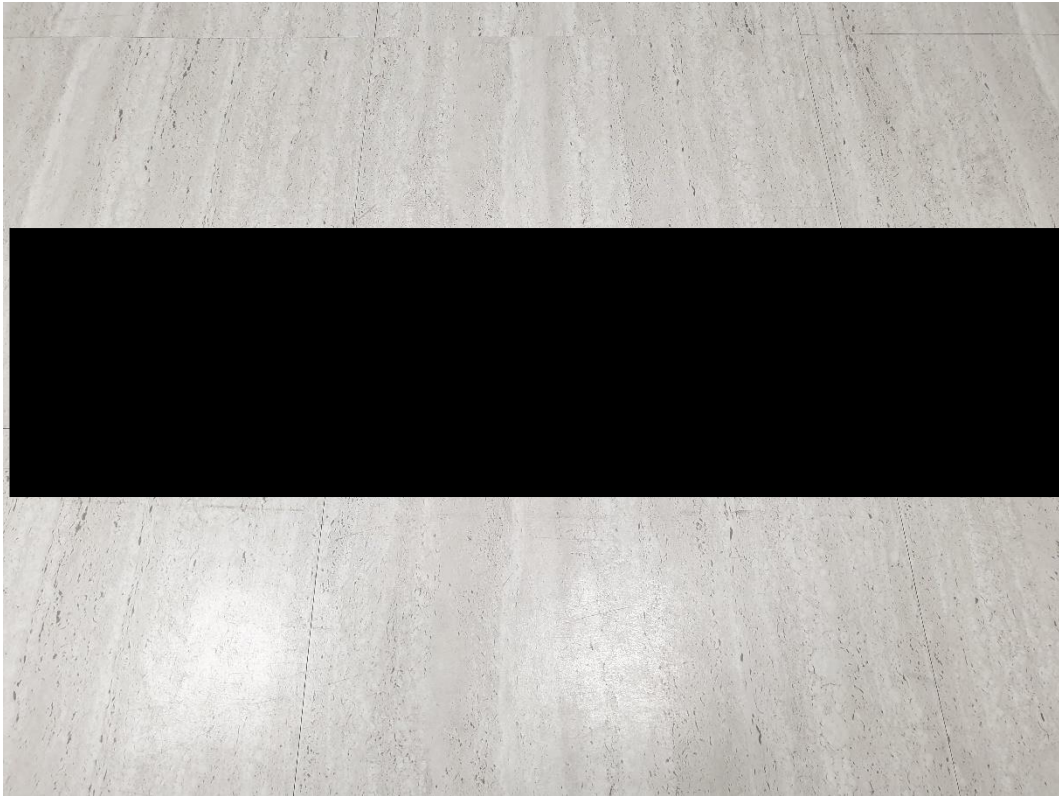
<b>Product Name</b>	Display Assy-Meter & AV
<b>Supplier</b>	Visteon
<b>Display Type P/N</b>	VPRASF-10849-KA
<b>Antenna Manufacture</b>	Harada Industry
<b>Part No.</b>	259D57LA0A
<b>Antenna Type</b>	Metal Plate Antenna
<b>Specification Version</b>	V.3

1. Test Setup  
(1) XYZ Plane



**2. Dimensioned Photo**

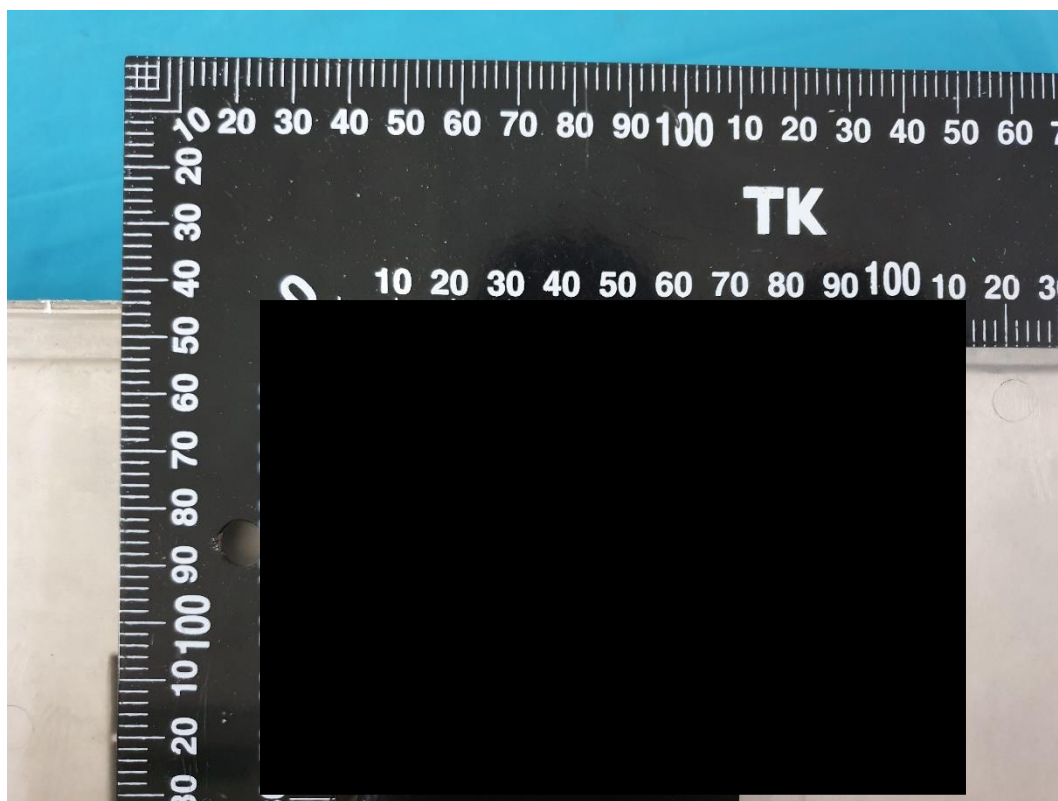
**(1) Front Photo**



**(2) Back Photo**

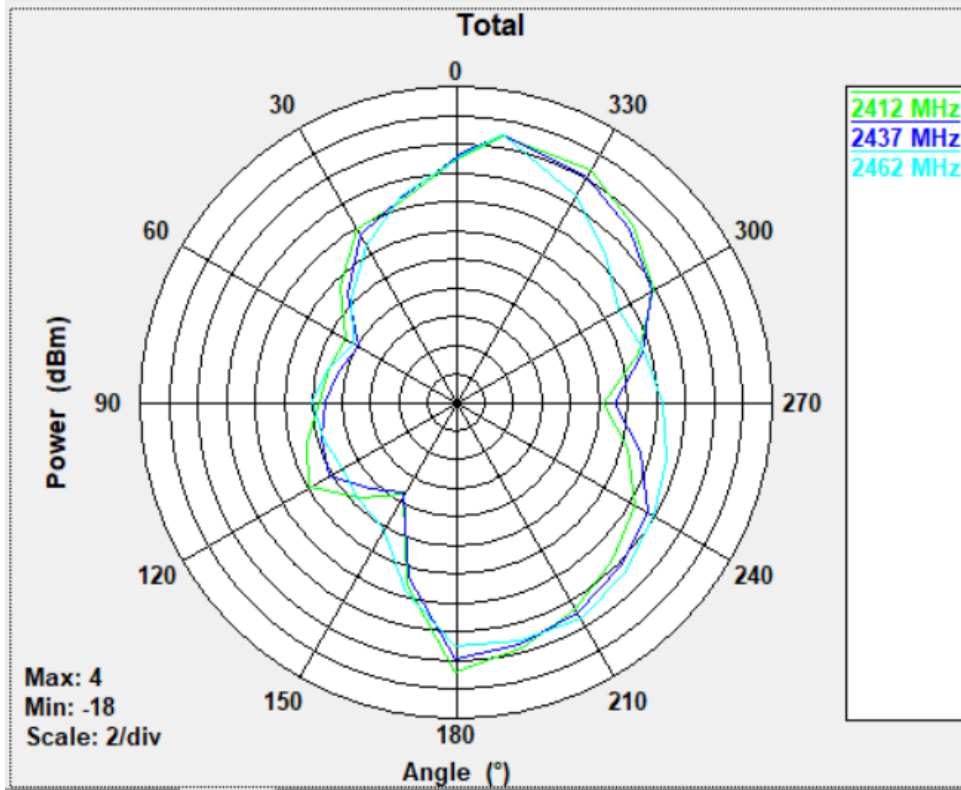


**(3) Antenna Photo**

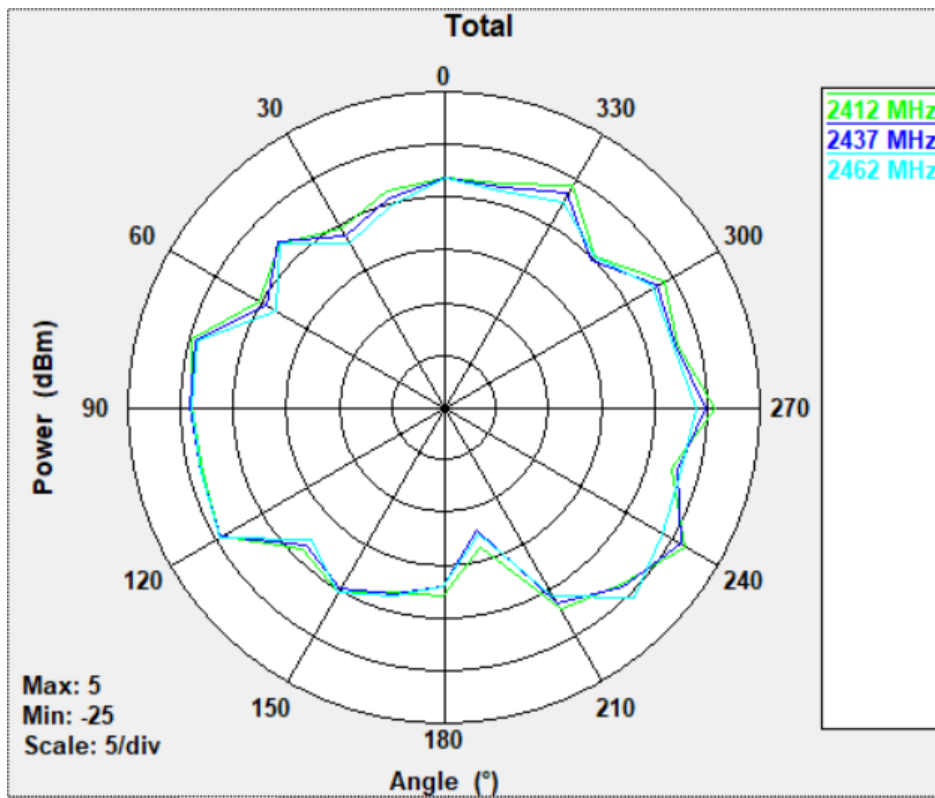


### 3. 2D Antenna Pattern

(1) X-Y : 2412MHz, 2437MHz, 2462MHz

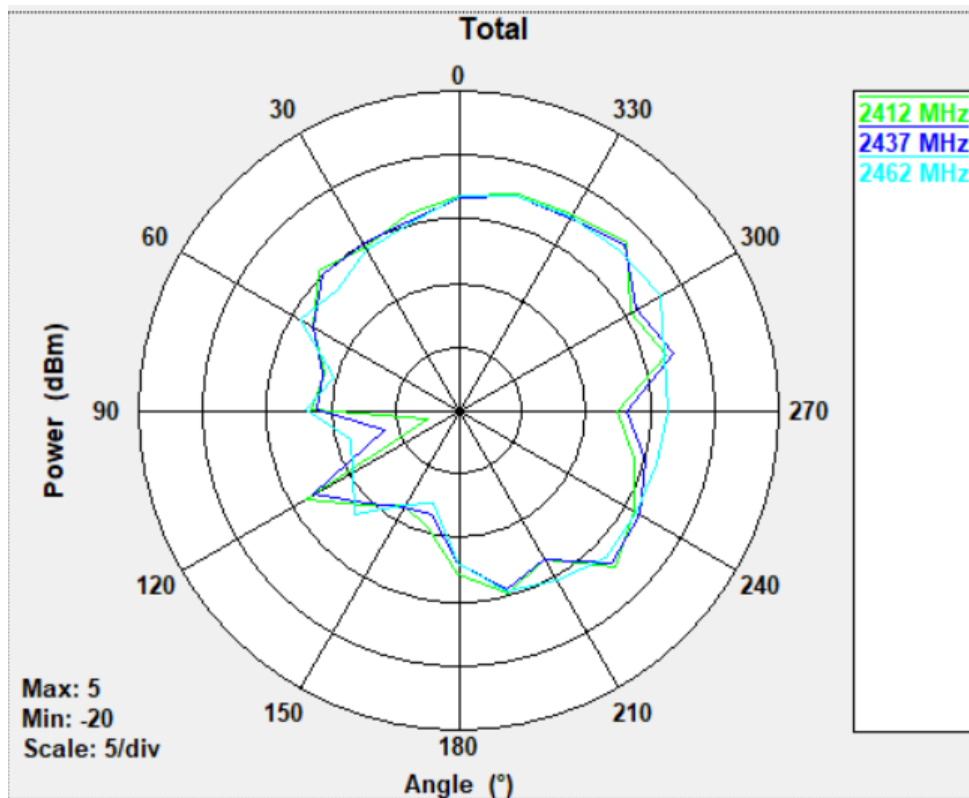


(2) X-Z : 2412MHz, 2437MHz, 2462MHz

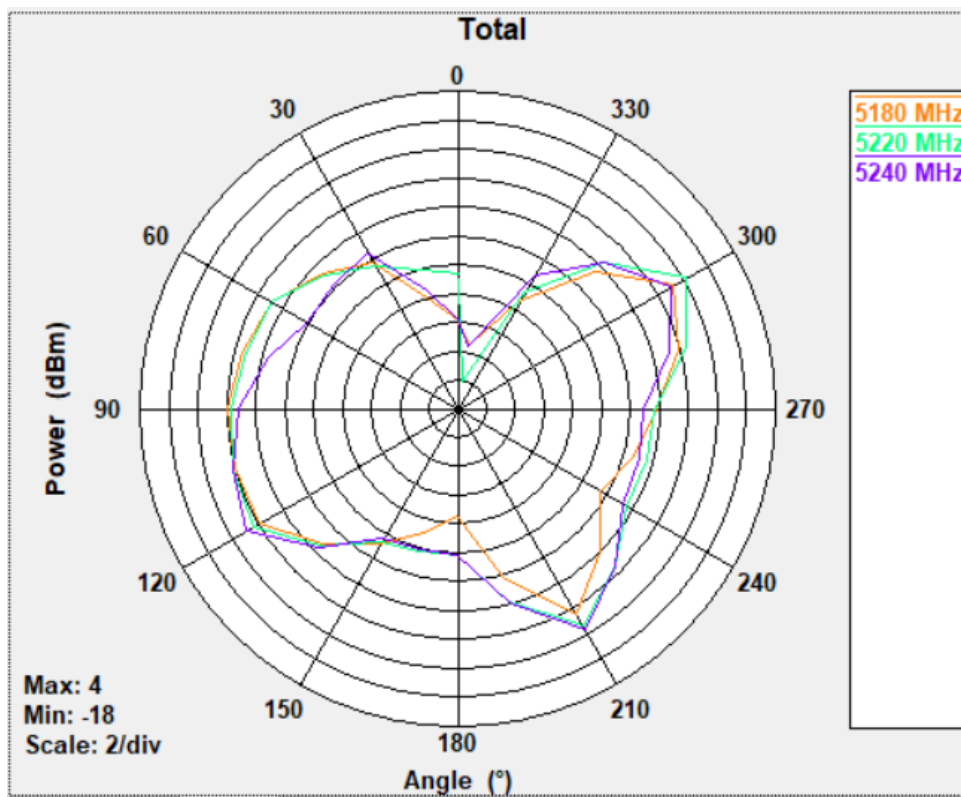




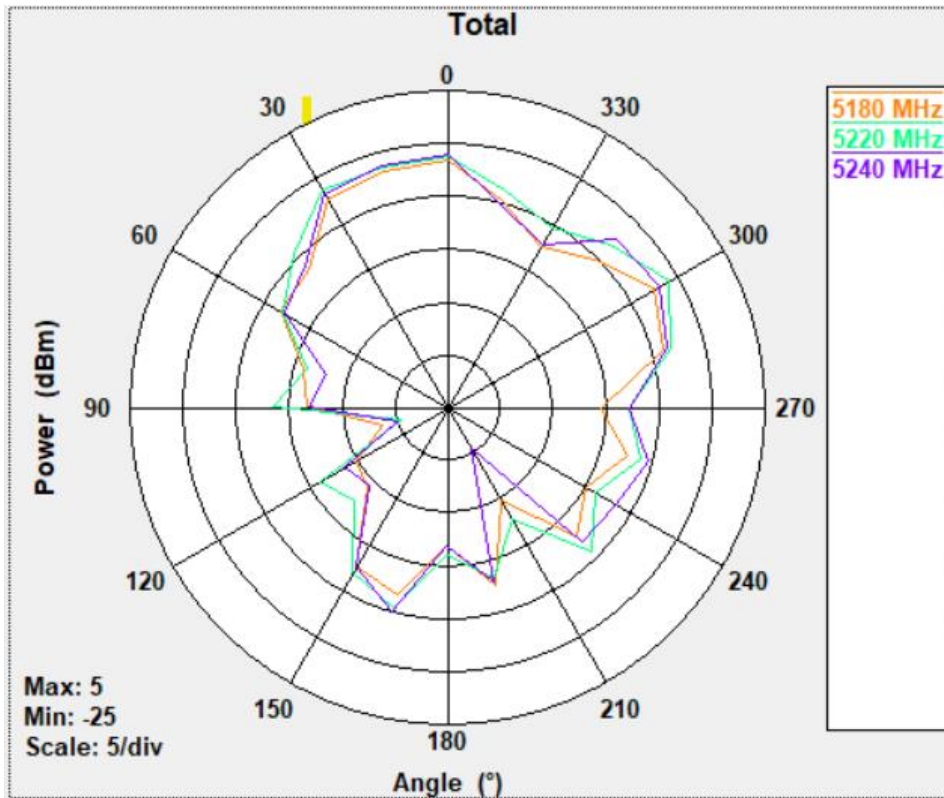
(3) Y-Z : 2412MHz, 2437MHz, 2462MHz



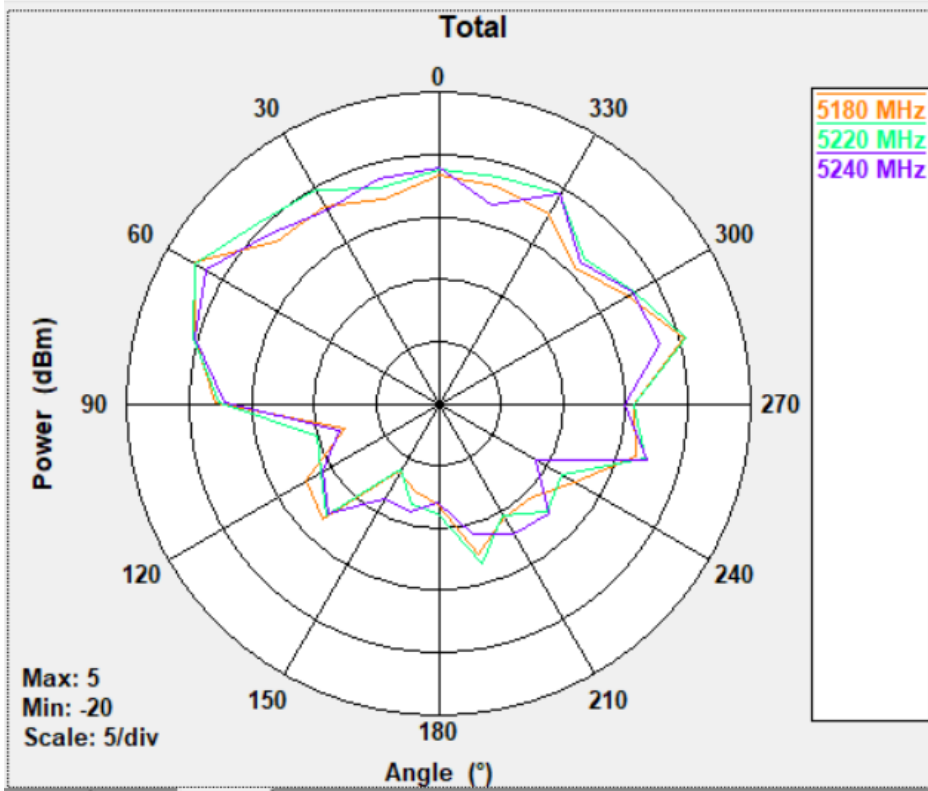
(4) X-Y : 5180MHz, 5220MHz, 5240MHz



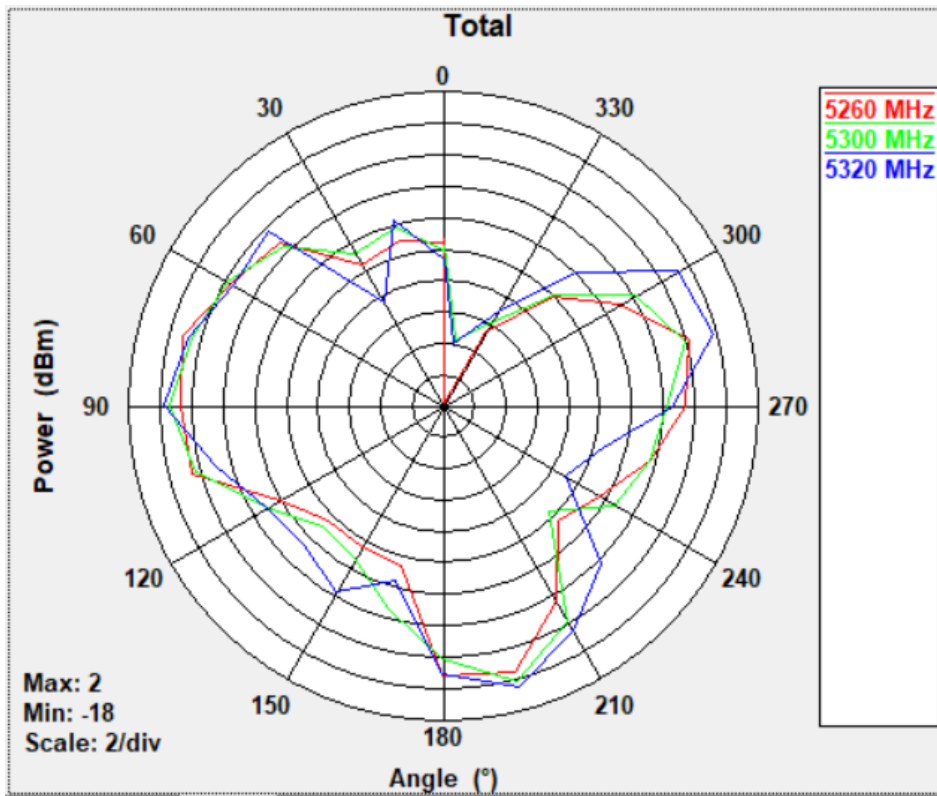
(5) X-Z : 5180MHz, 5220MHz, 5240MHz



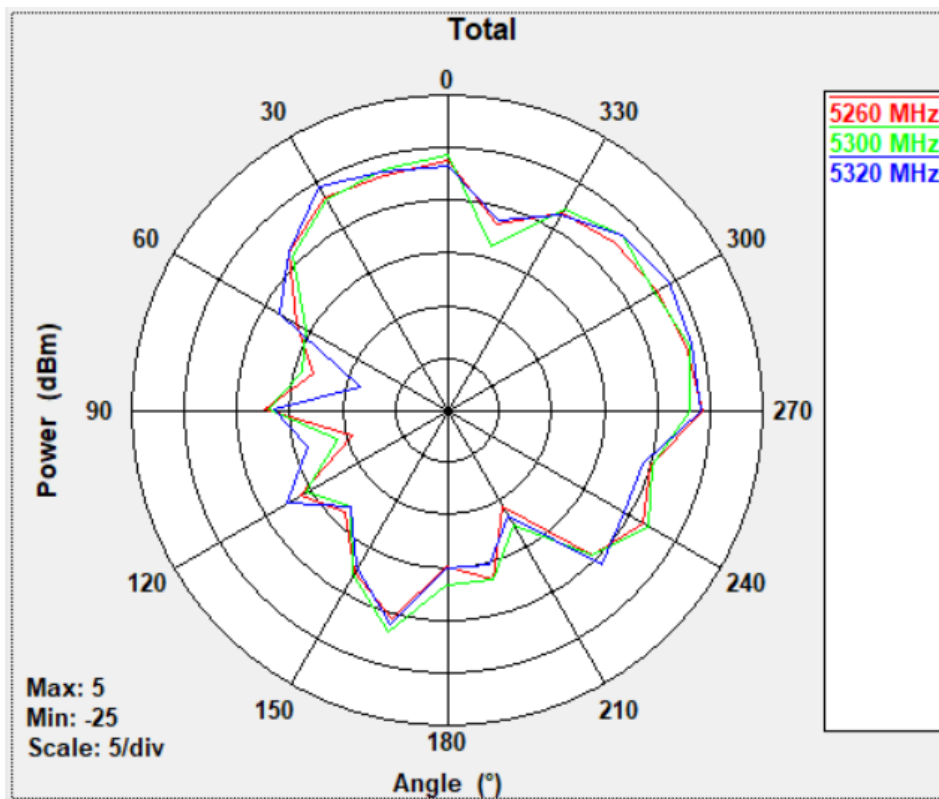
(6) Y-Z : 5180MHz, 5220MHz, 5240MHz



(7) X-Y : 5260MHz, 5300MHz,5320MHz

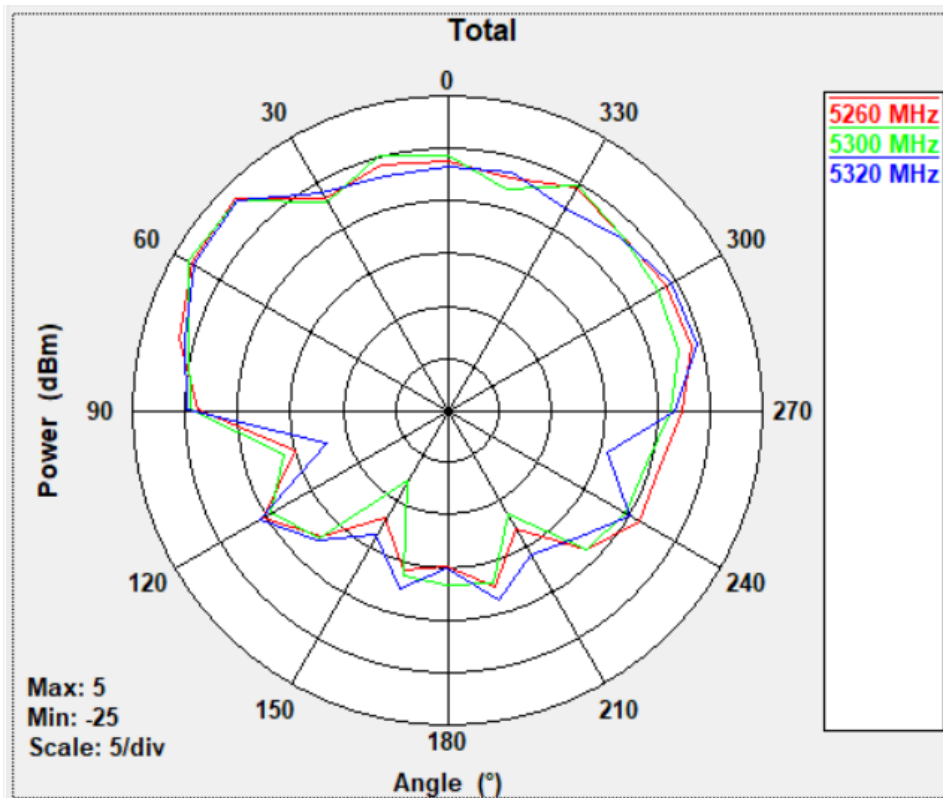


(8) X-Z : 5260MHz, 5300MHz,5320MHz

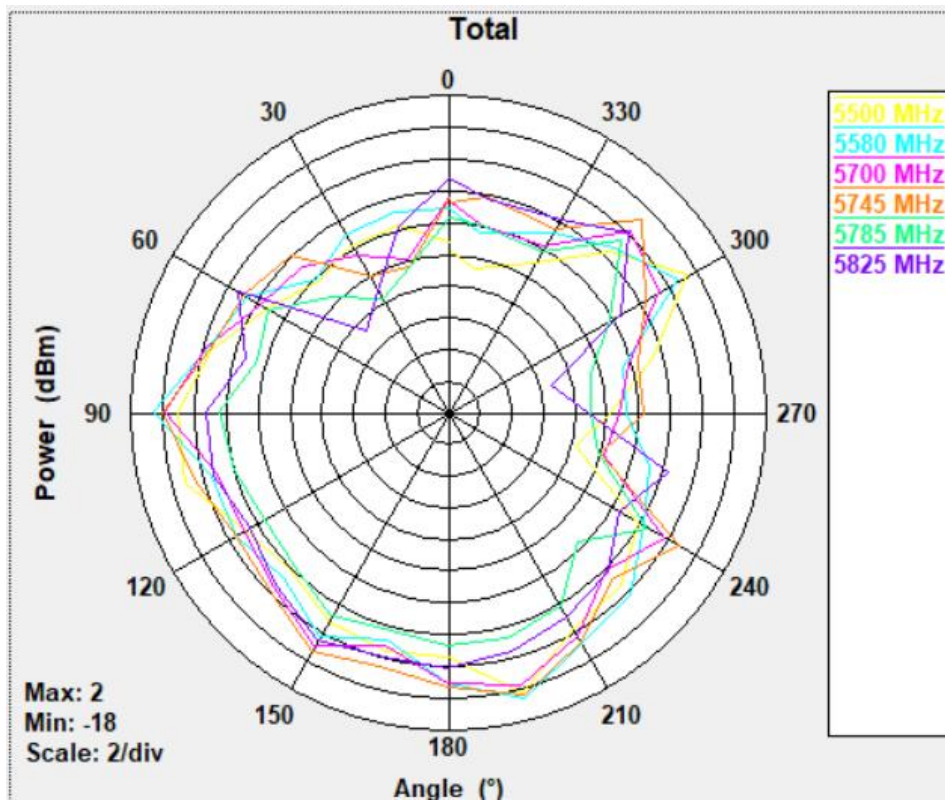




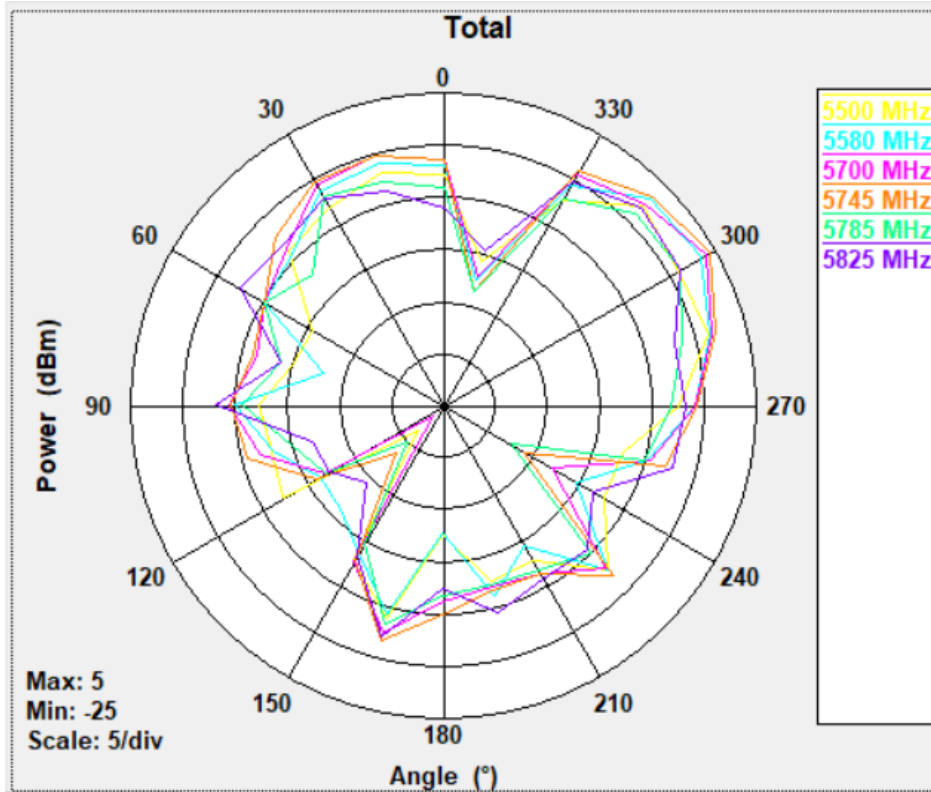
(9) Y-Z : 5260MHz, 5300MHz,5320MHz



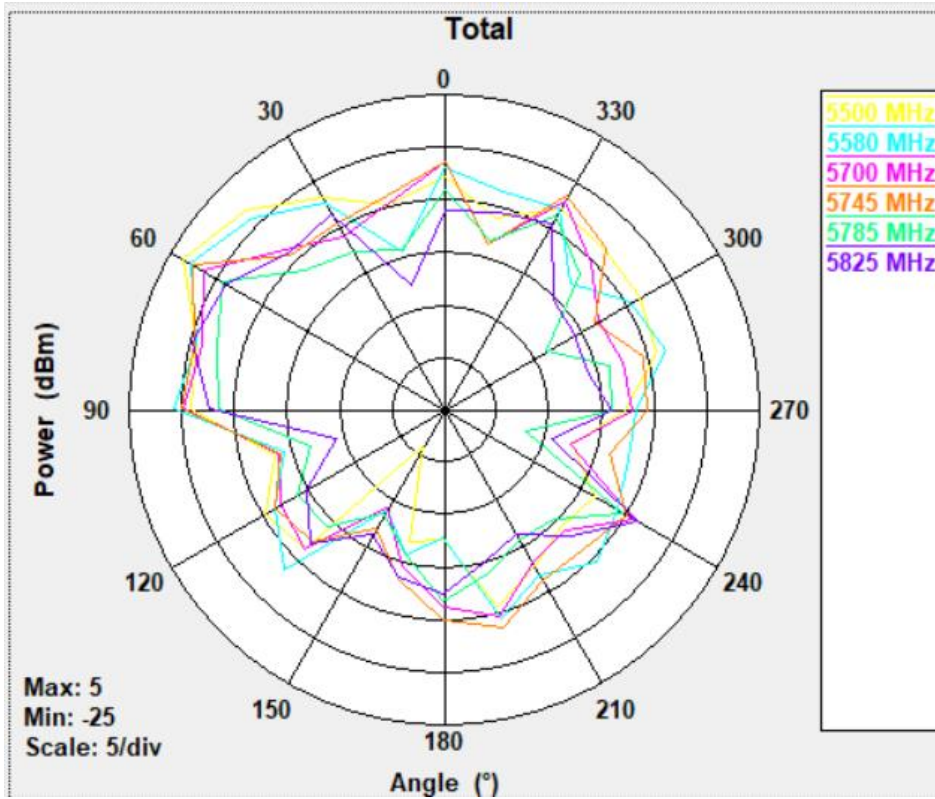
(10) X-Y: 500MHz, 5580MHz, 5700MHz, 5745MHz, 5785MHz, 5825MHz



(11) X-Z: 500MHz, 5580MHz, 5700MHz, 5745MHz, 5785MHz, 5825MHz

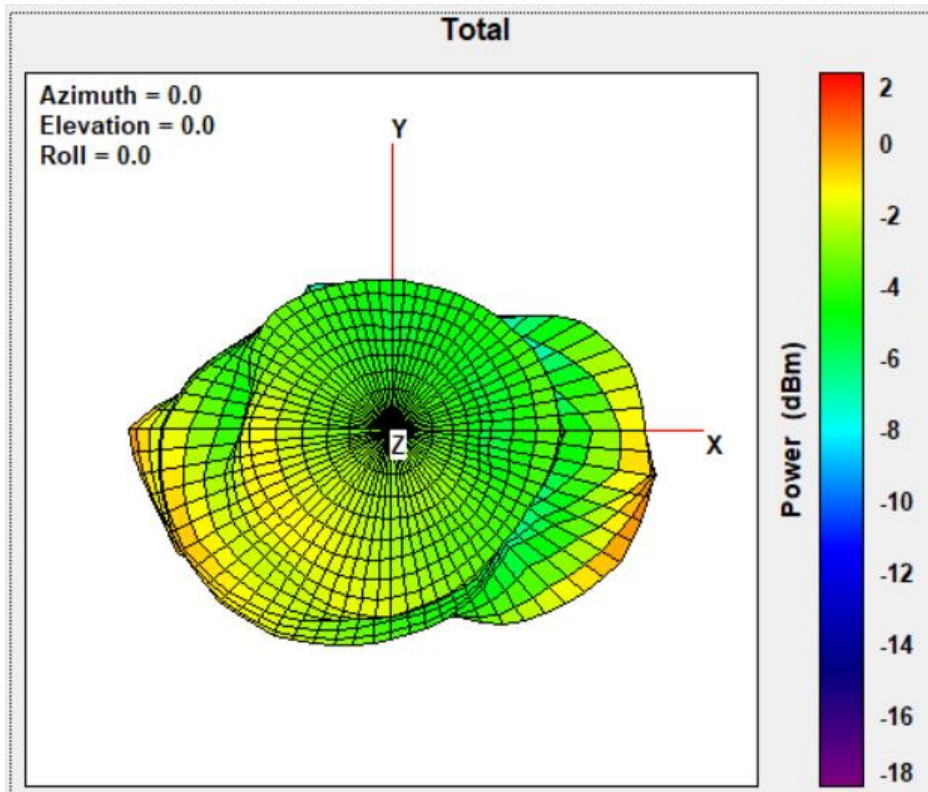


(12) Y-Z: 500MHz, 5580MHz, 5700MHz, 5745MHz, 5785MHz, 5825MHz

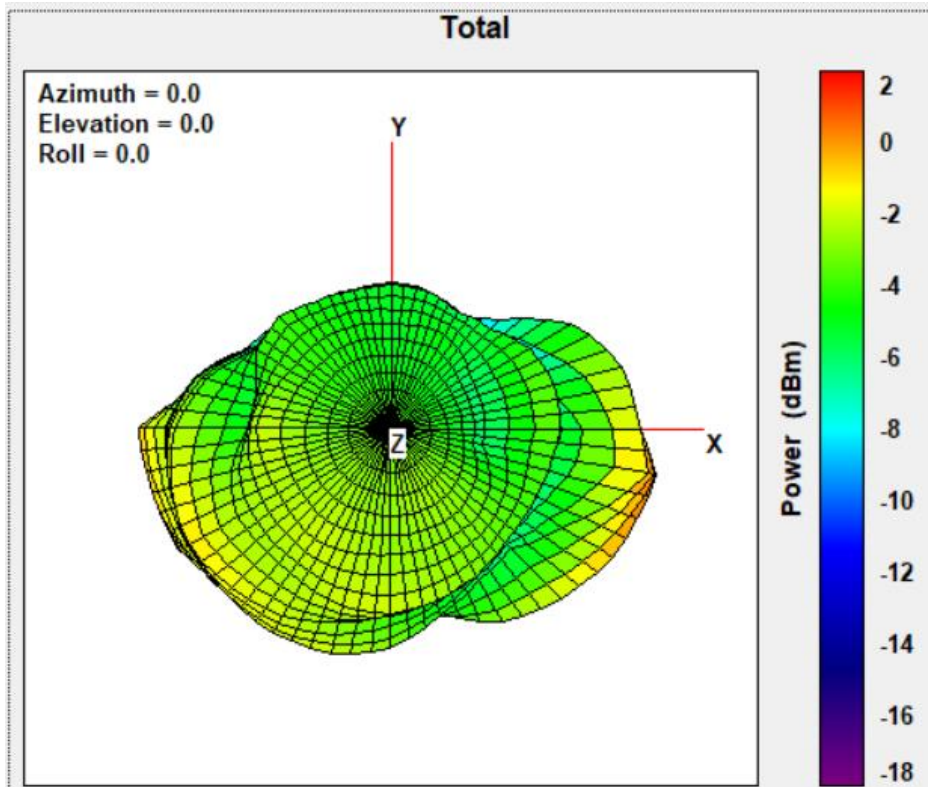


#### 4. 3D Antenna Pattern

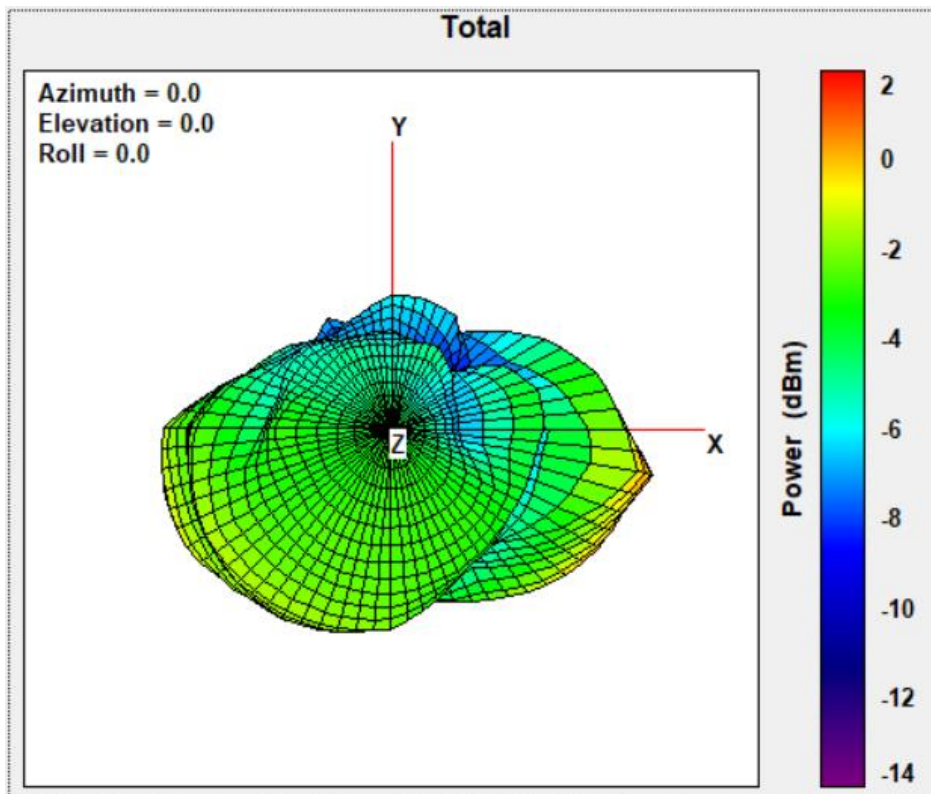
##### (1) 2412MHz



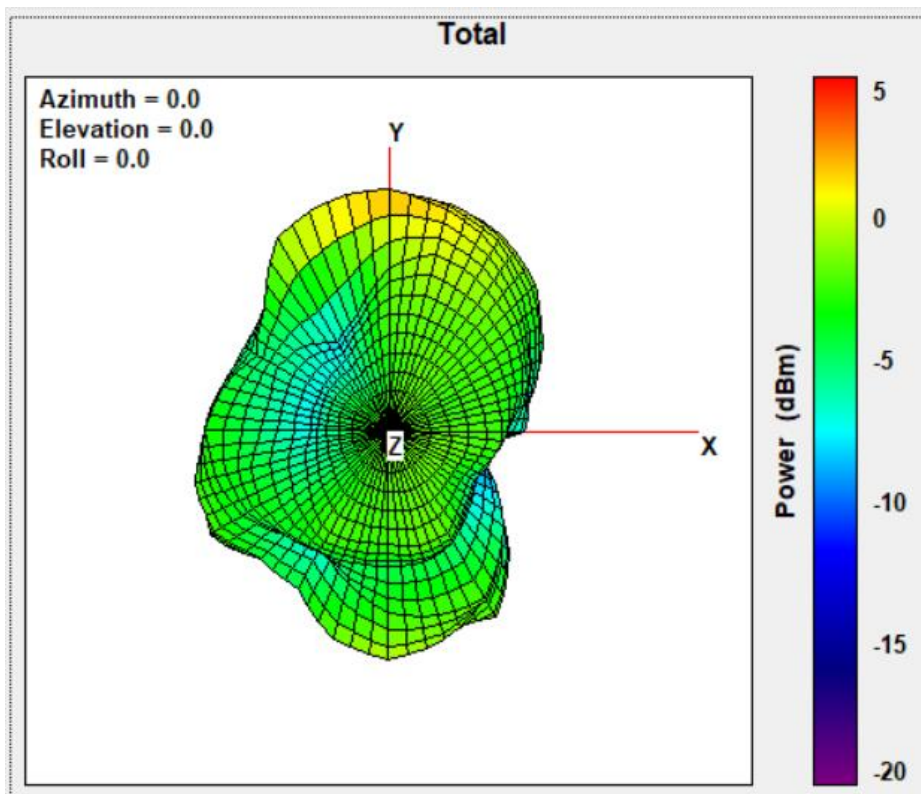
##### (2) 2437MHz



**(3) 2462MHz**

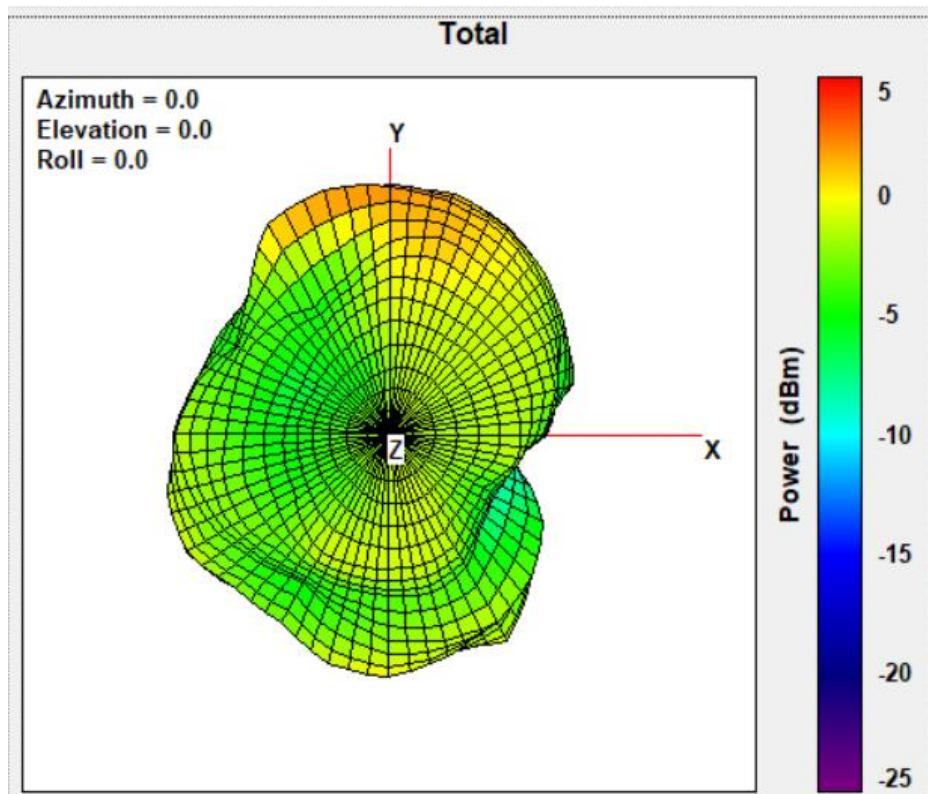


**(4) 5180MHz**

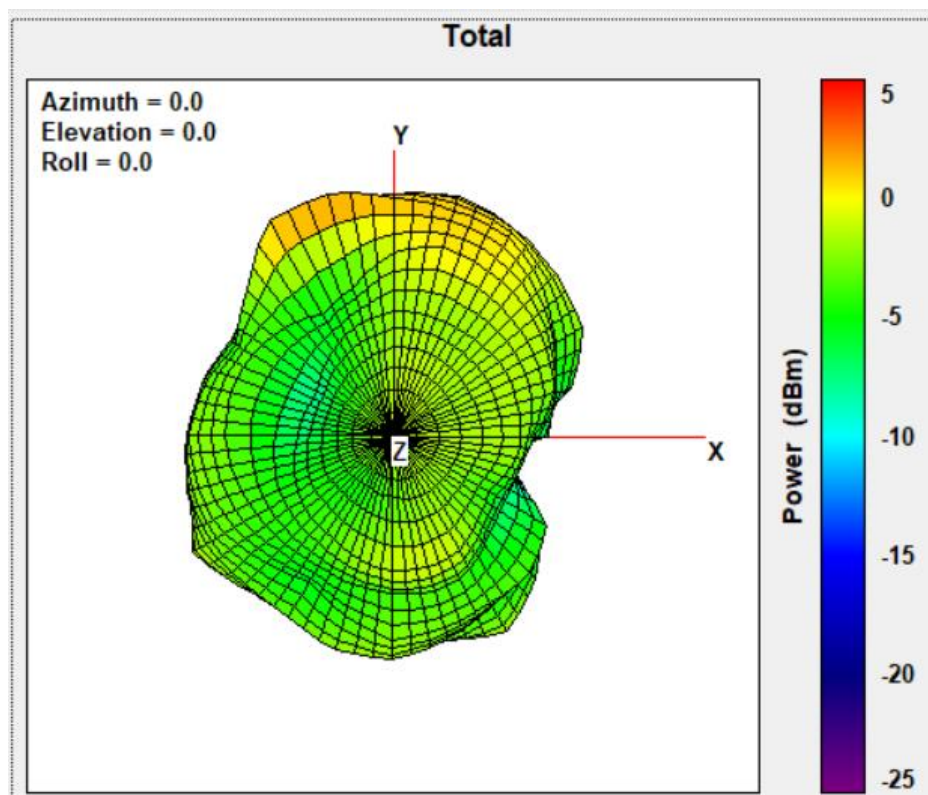




(5) 5220MHz

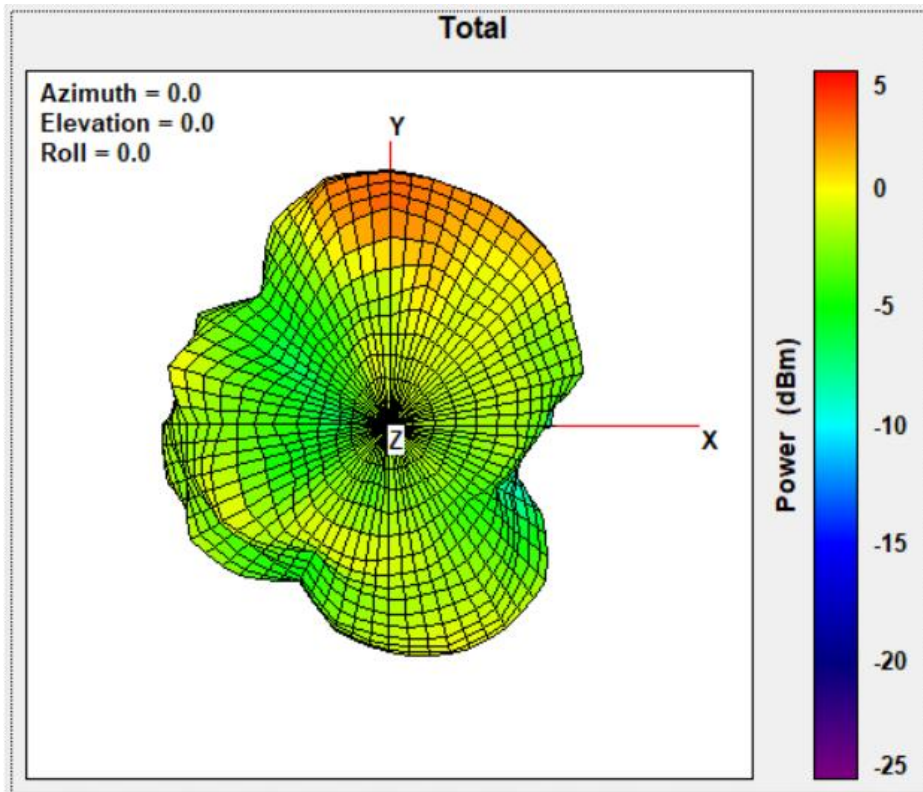


(6) 5240MHz

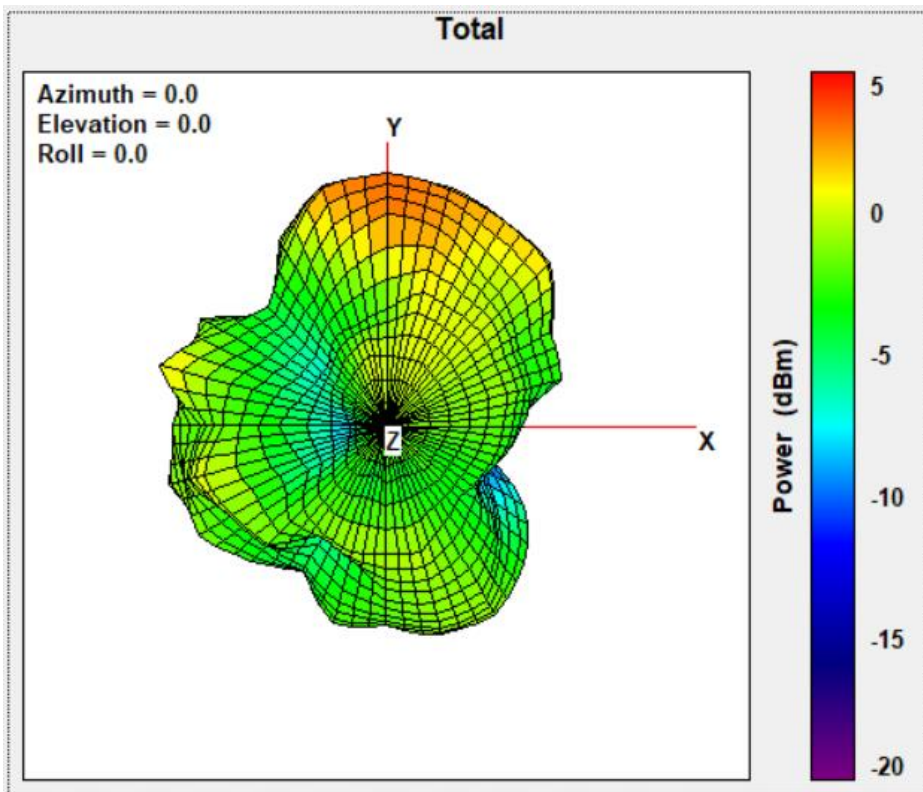




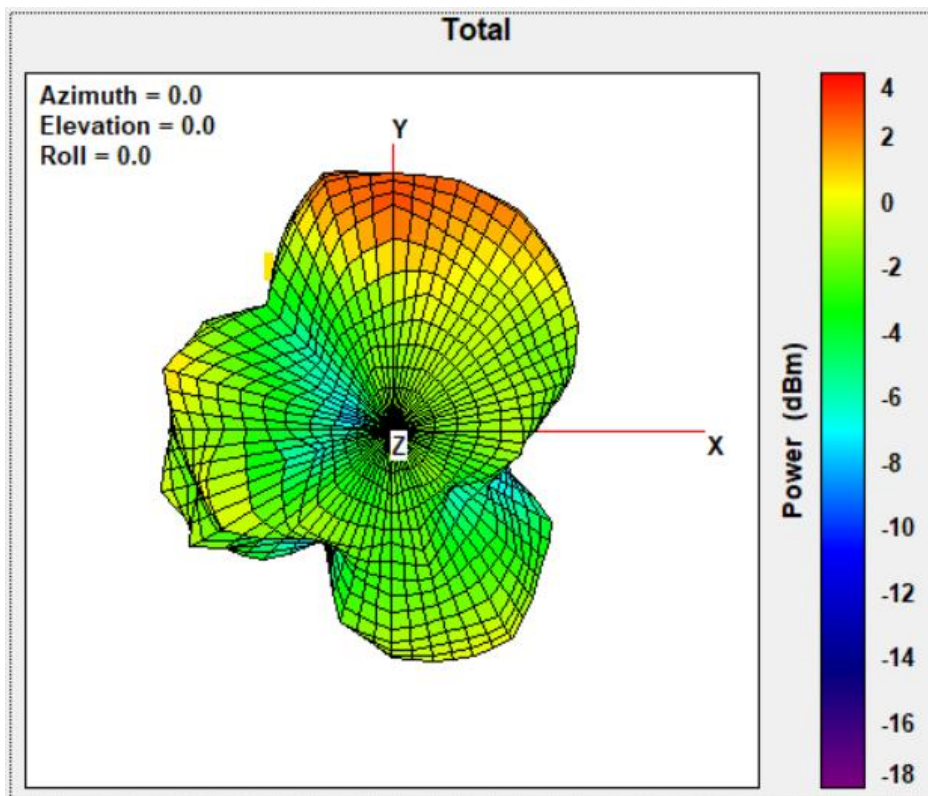
(7) 5260MHz



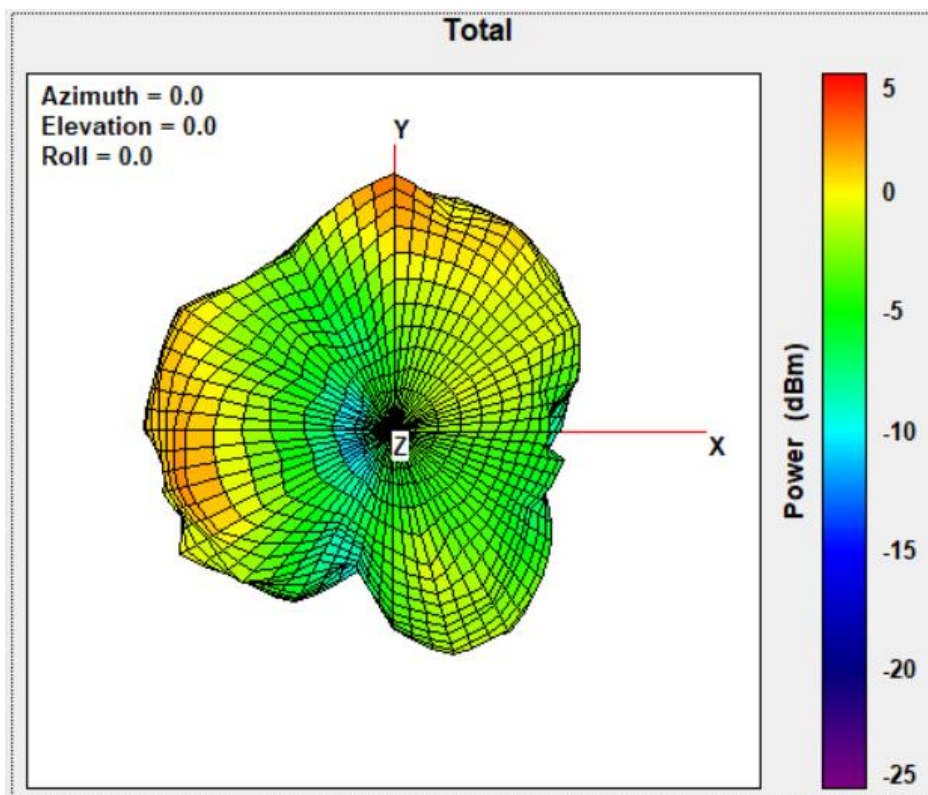
(8) 5300MHz



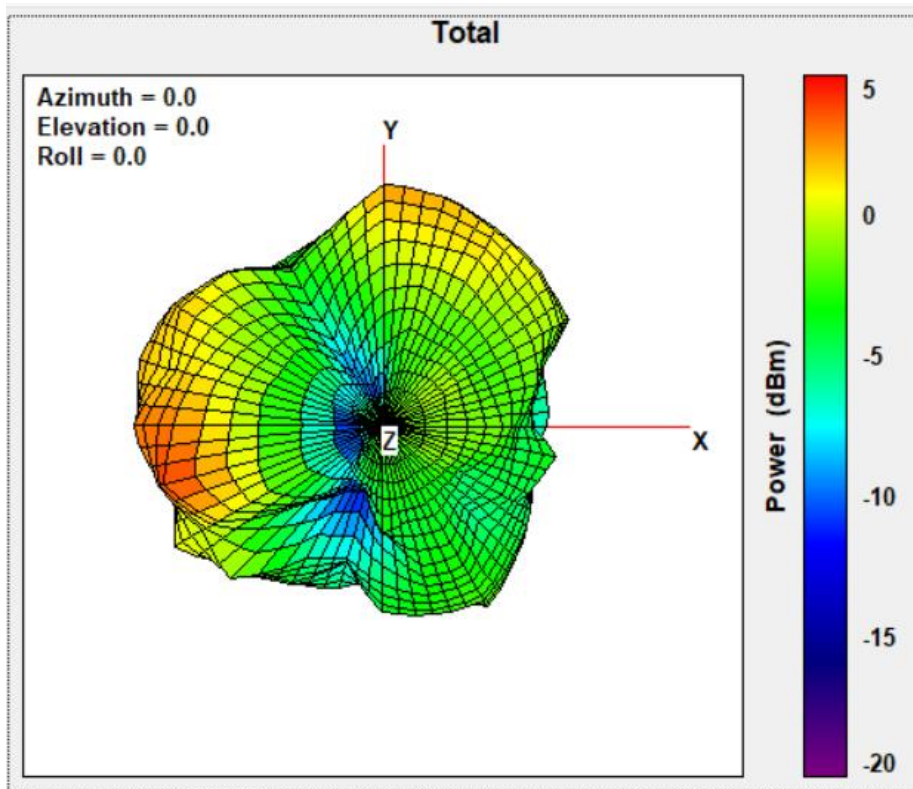
(9) 5320MHz



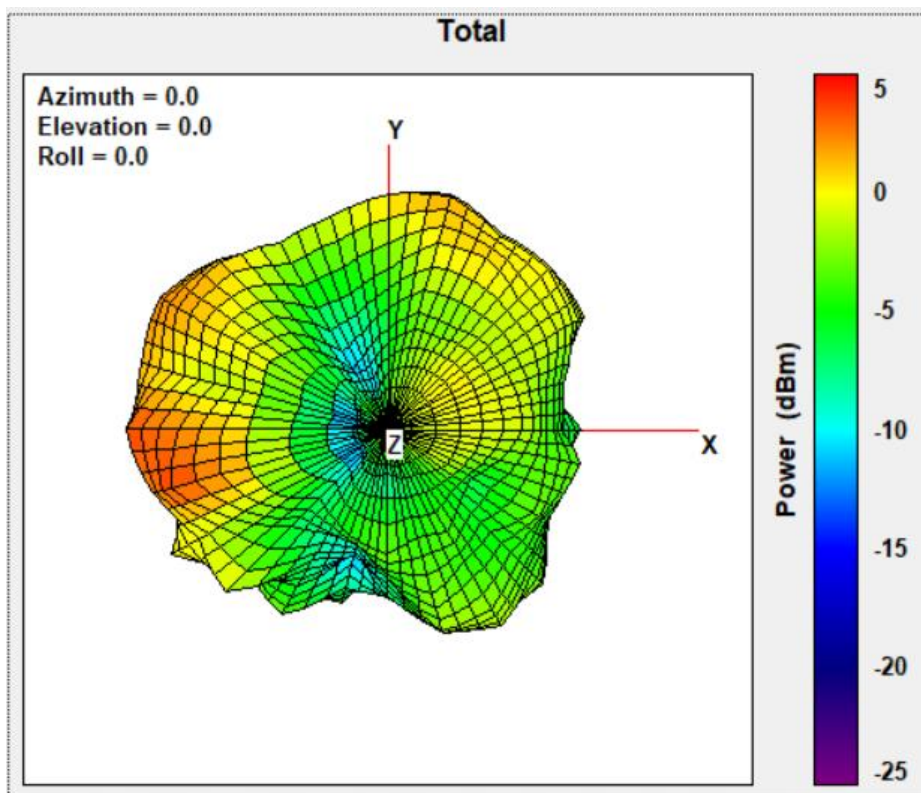
(10) 5500MHz



(11) 5580MHz

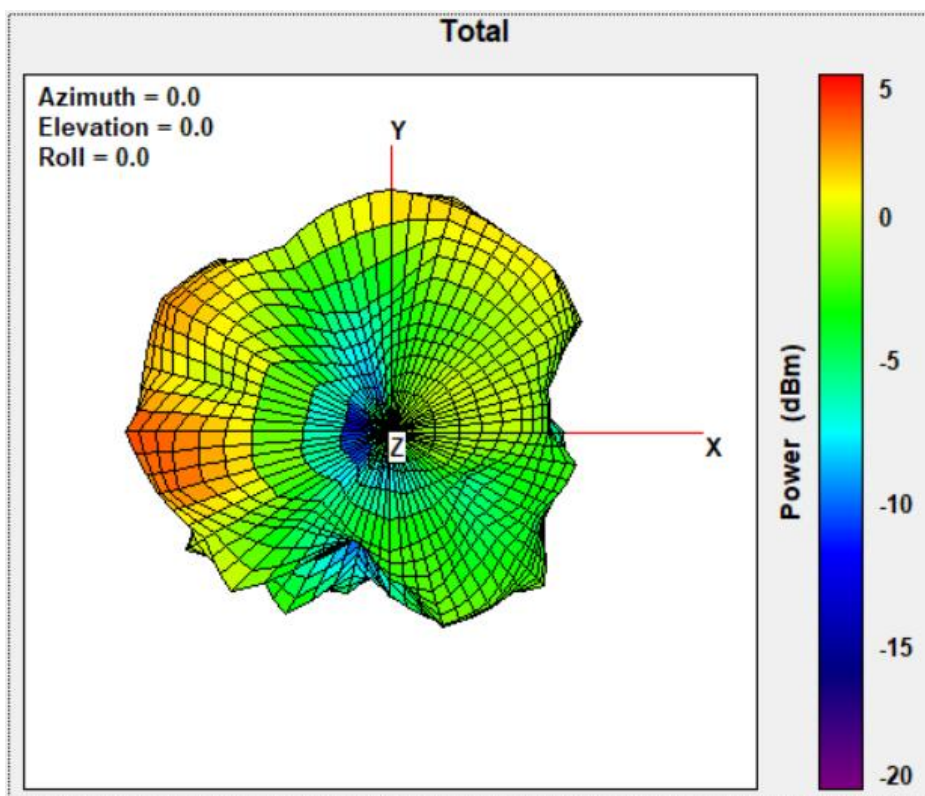


(12) 5700MHz

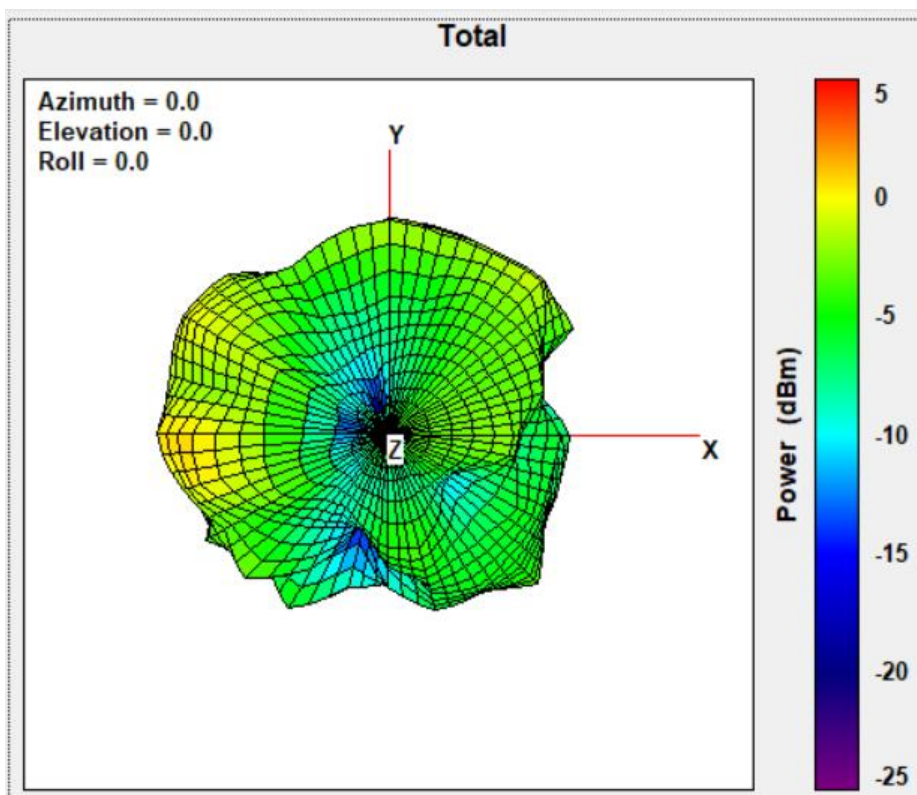




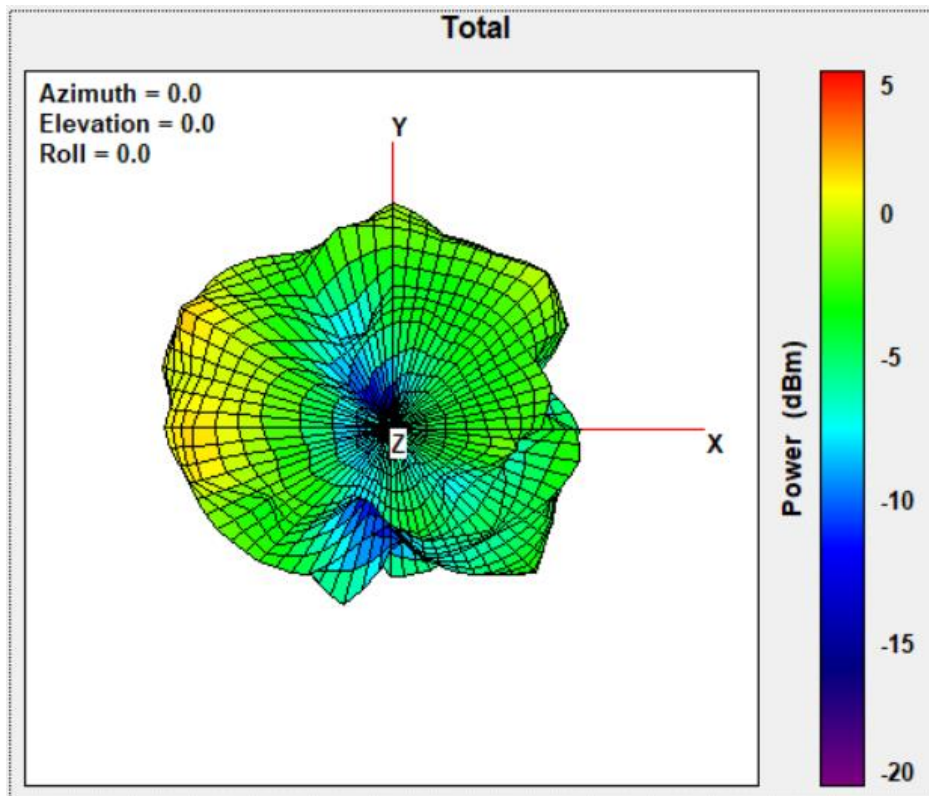
(13) 5745MHz



(14) 5785MHz



(15)5825MHz





## 5. Test result

### (1) 2.4GHz band

Frequency (MHz)	2412	2437	2462
Efficiency (%)	41.39	39.70	39.55
Peak Gain (dBi)	1.19	0.98	1.48

### (2) 5GHz band

Frequency (MHz)	5180	5220	5240	5260	5300	5320
Efficiency (%)	30.69	37.43	33.19	42.19	42.96	44.39
Peak Gain (dBi)	2.43	2.89	2.76	3.34	3.33	3.25

Frequency (MHz)	5500	5580	5700	5745	5785	5825
Efficiency (%)	41.02	47.80	44.35	49.14	26.80	34.76
Peak Gain (dBi)	3.42	4.71	4.10	4.24	0.95	2.31