

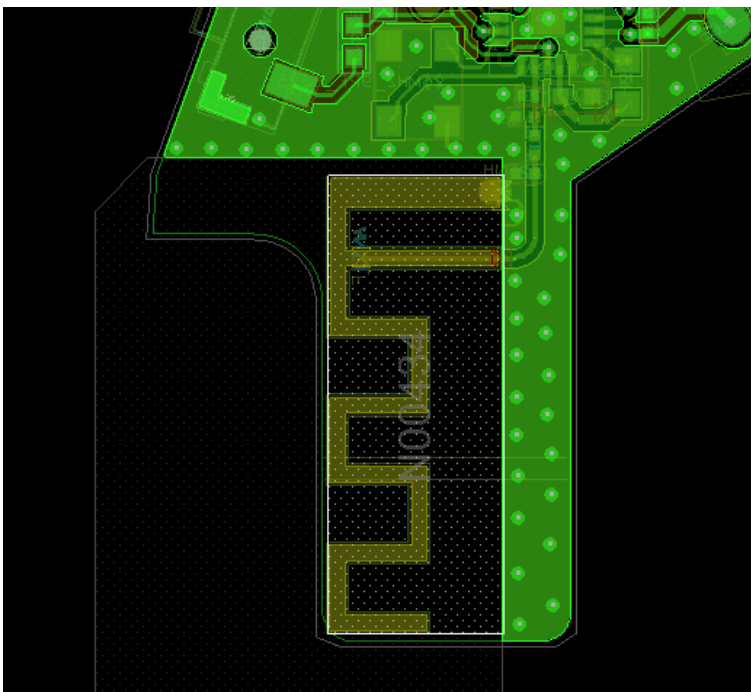
## Product specification

### Quick Reference Date

|                            |                                                                                                                                                               |  |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                            | Antenna module on the system board                                                                                                                            |  |
| Mode Name                  | ANT_IFA1                                                                                                                                                      |  |
| Frequenc Range             | 2400 ~ 2500GHz                                                                                                                                                |  |
| Ant. Port Input Pwr. (dBm) | 0 (Typ. BT class 2 output power)                                                                                                                              |  |
| Tot. Rad. Pwr. (dBm)       | 2.12~ 2.39 (Input pwr – loss pwr)                                                                                                                             |  |
| Peak EIRP(dBm)             | 4.53dBm                                                                                                                                                       |  |
| Directivity (dBi)          | 2.69(all direction antenna)                                                                                                                                   |  |
| Efficiency (Db)            | 30.63%~33.65%                                                                                                                                                 |  |
| Gain (dBi)                 | -0.35~-0.25 (Avg Gain XY-plane)                                                                                                                               |  |
| Maximum Power (dBm)        | 4.53                                                                                                                                                          |  |
| Minimum Power )            | -4(XY-plane)                                                                                                                                                  |  |
| Avg. Power (dBm)           | -0.5(XY-plane)                                                                                                                                                |  |
| Input Impendence(ohm)      | 50                                                                                                                                                            |  |
| Polarization Type          | Vertical & Horizontal                                                                                                                                         |  |
| V. S.W. R                  | < 1.4                                                                                                                                                         |  |
| Manufacturer               | YILIDA ACOUSTIC TECHNOLOGY CO.,LTD.<br>Room 302, Building 3, No. 11, Gongye West 3rd<br>Road, Songshan Lake Park, Dongguan City,<br>Guangdong Province, China |  |

All the technical data and information contained herein are subject to change without prior notice

### Antenna Layout & module on the system board



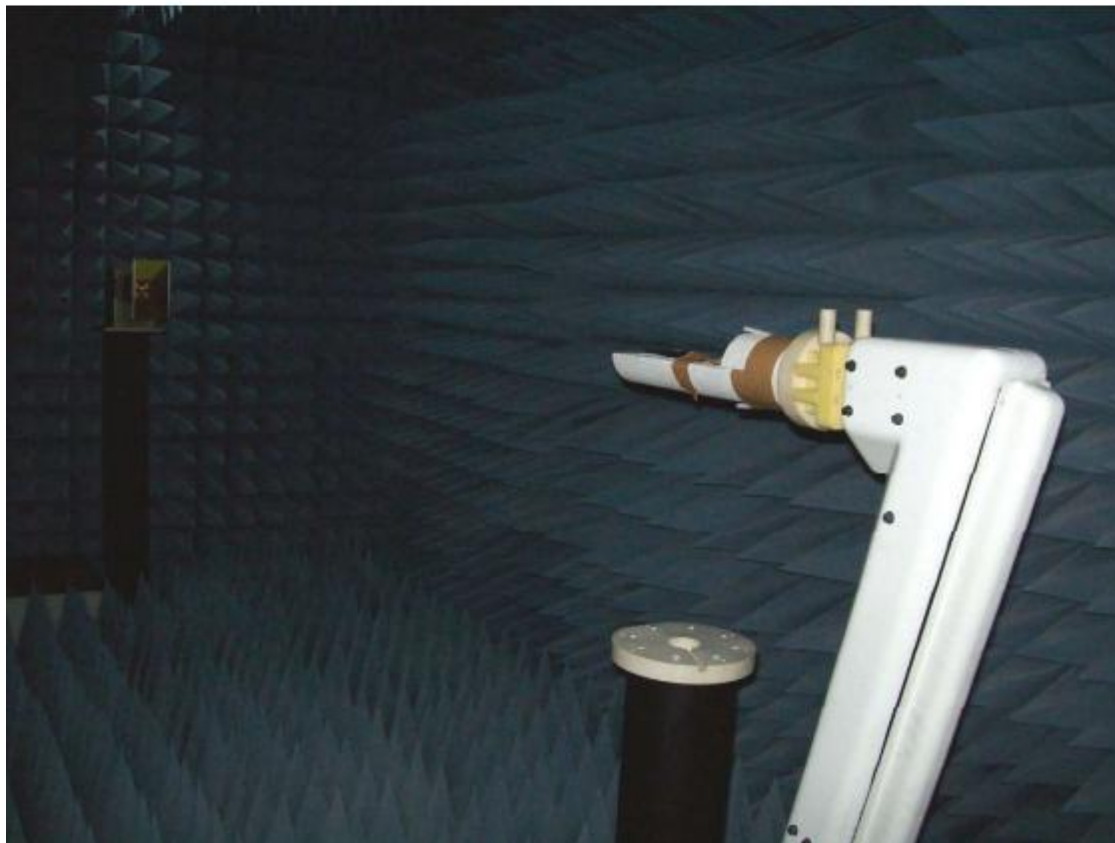
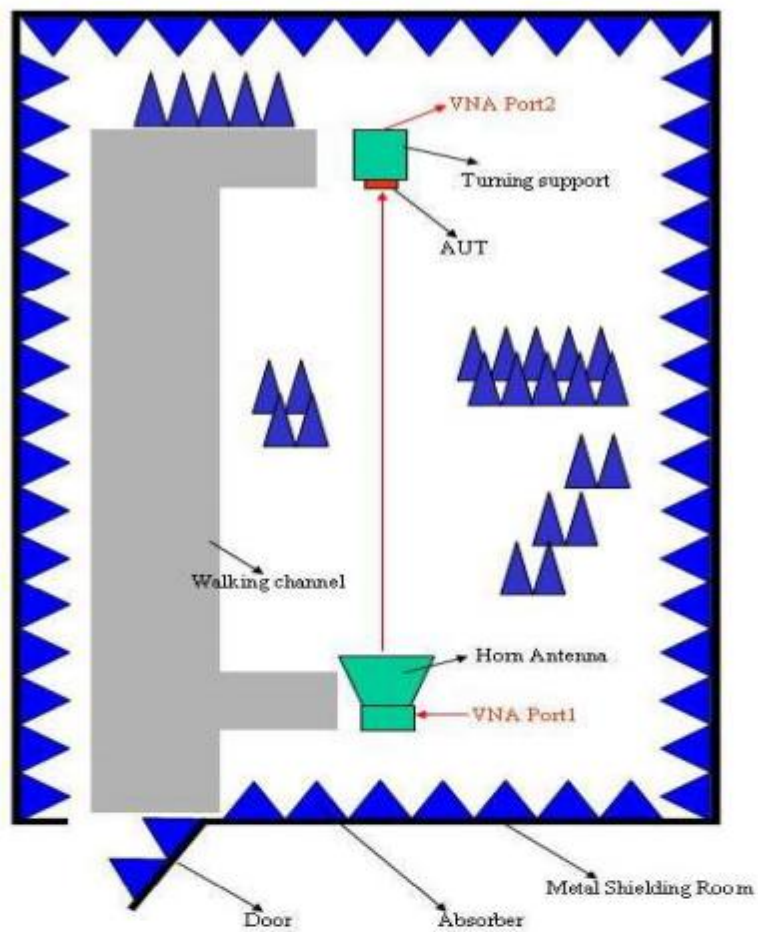
Antenna Gain

| Frequency | Efficiency | percentage | Gain  |
|-----------|------------|------------|-------|
| 2400      | -4.75      | 30.63%     | -0.25 |
| 2440      | -4.19      | 31.59%     | -0.35 |
| 2480      | -4.52      | 33.65%     | -0.26 |

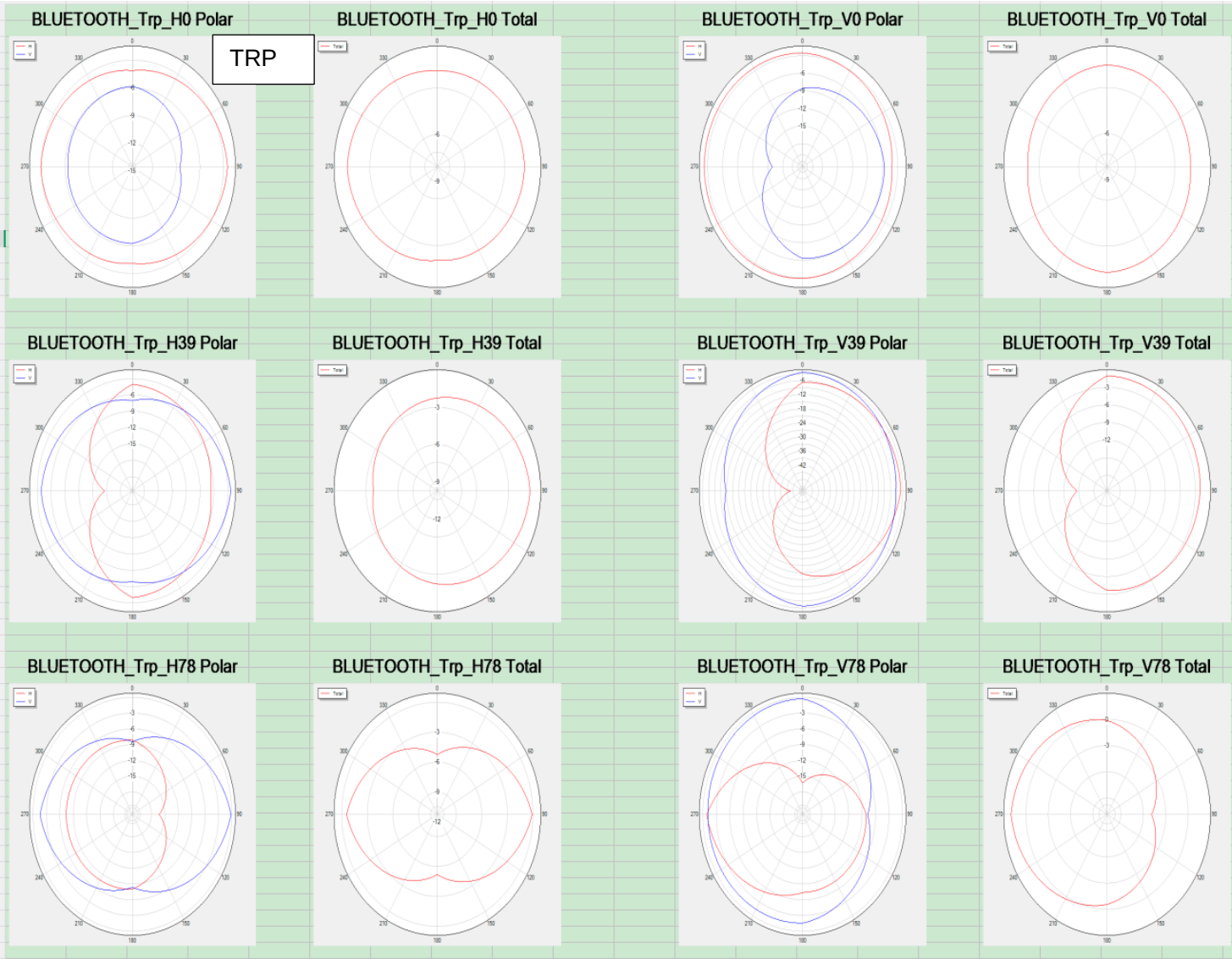
**Return Loss**



## The Environment of Antenna Radiation Pattern



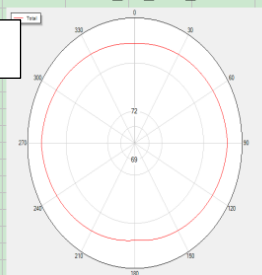
3D radiation pattern diagram



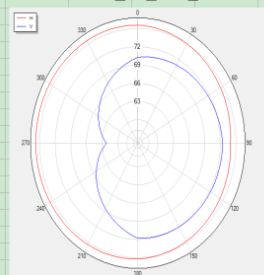
BLUETOOTH\_Tis\_Rssi\_H0 Polar



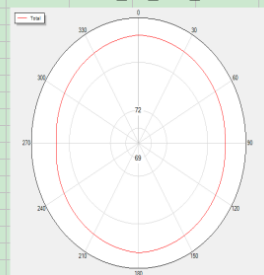
BLUETOOTH\_Tis\_Rssi\_H0 Total



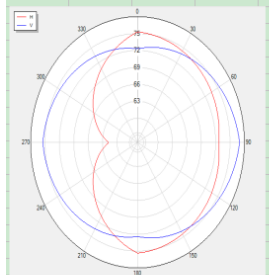
BLUETOOTH\_Tis\_Rssi\_V0 Polar



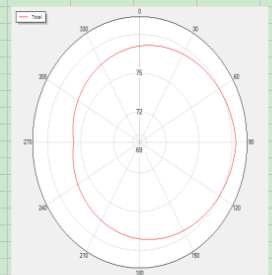
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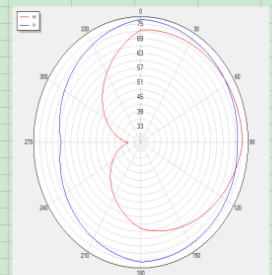
BLUETOOTH\_Tis\_Rssi\_H39 Polar



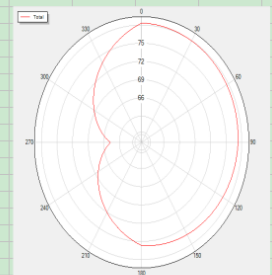
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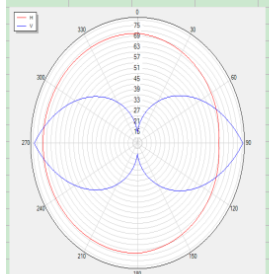
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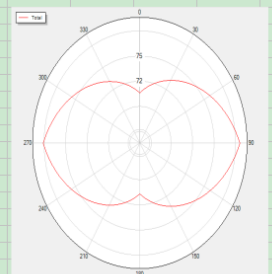
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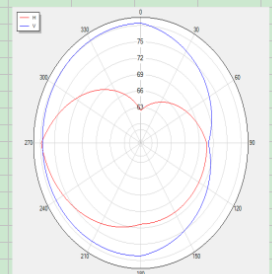
BLUETOOTH\_Tis\_Rssi\_H78 Polar



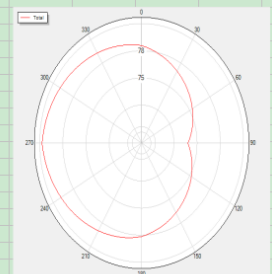
BLUETOOTH\_Tis\_Rssi\_H78 Total



BLUETOOTH\_Tis\_Rssi\_V78 Polar



BLUETOOTH\_Tis\_Rssi\_V78 Total



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