

Measurement Report

Customer : 피타소프트

Model : DR970X_PLUS

Application : Wi-Fi 2.4GHz & 5GHz

Antenna P/N : SHDA10312442B

2023. 09. 14

AMO

A M O T E C H

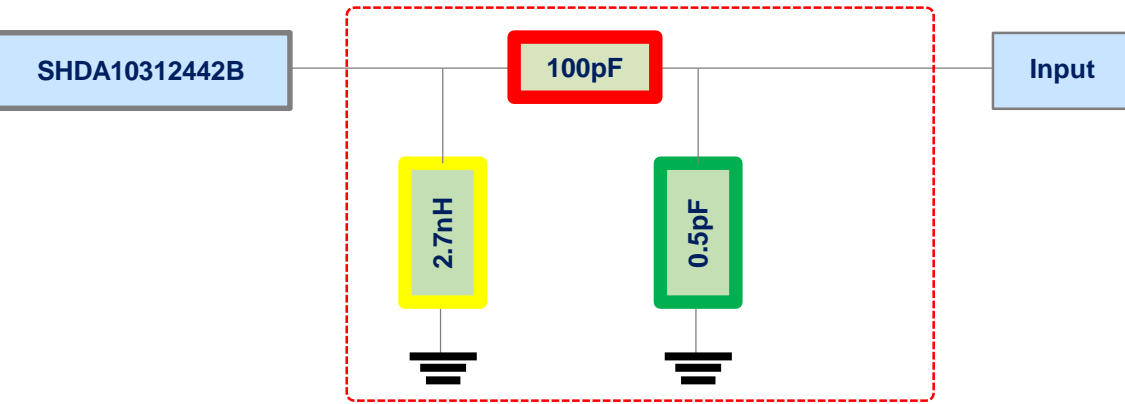


1. Measurement Report

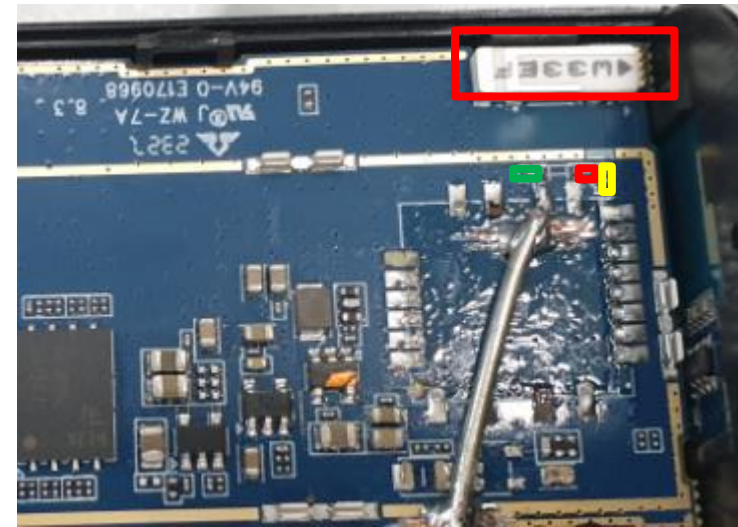
1. Passive measurement

1-1. Antenna matching value

Antenna matching circuit

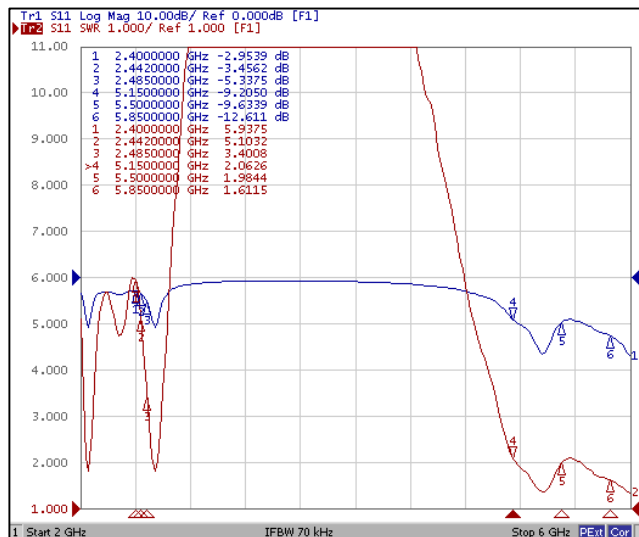


Dual Wi-Fi



Set condition

1-2. Measured S-parameter

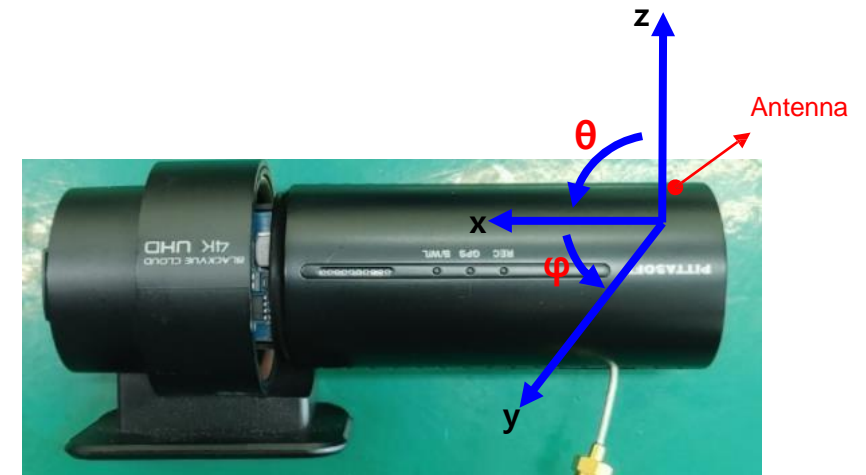


Return Loss & VSWR

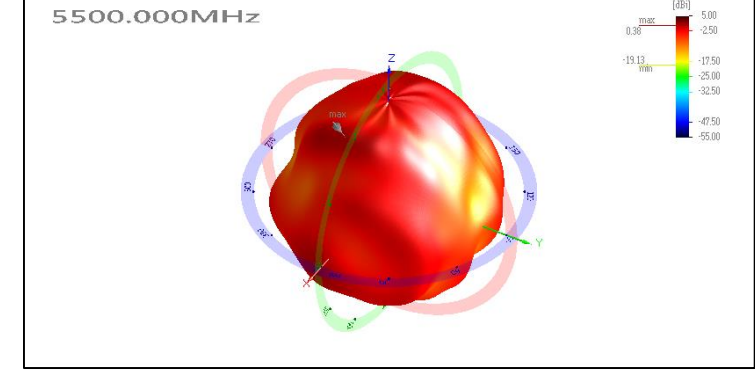
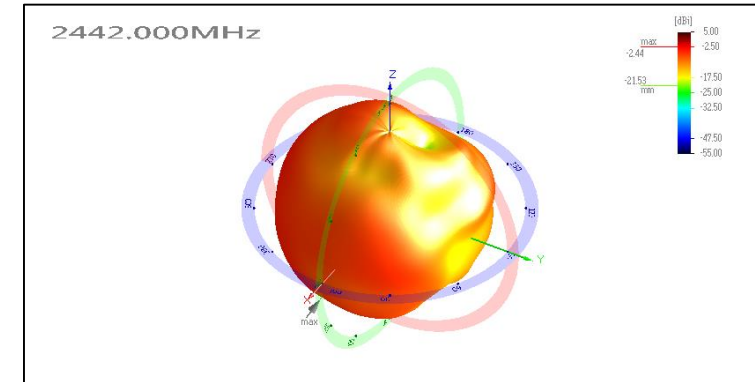
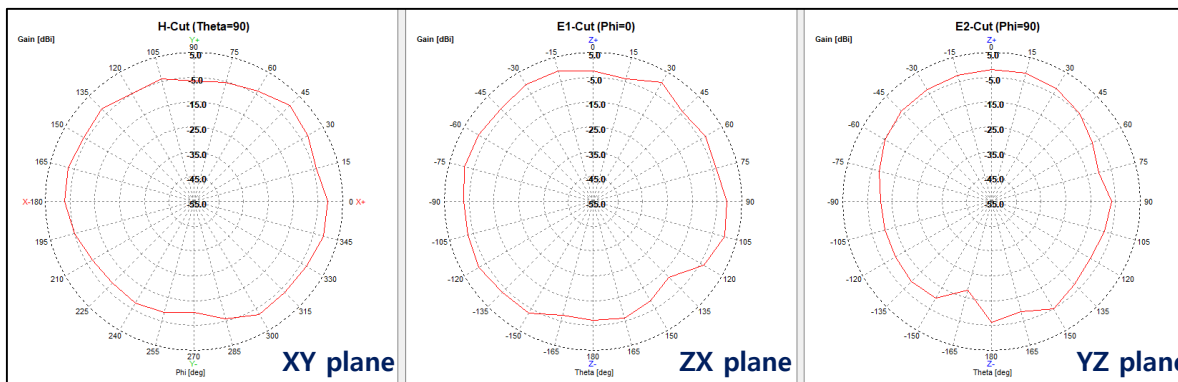
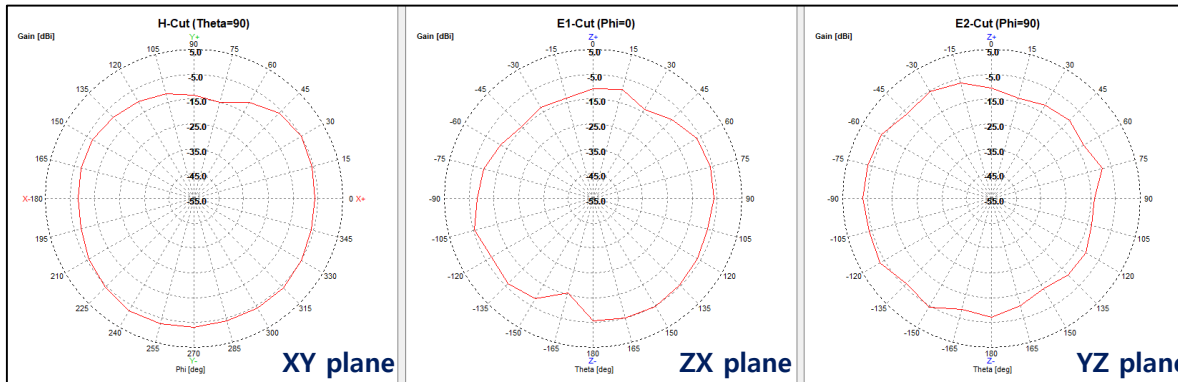
2. Measurement Report

2-1. Antenna gain

| Frequency [MHz] | Efficiency [%] | Average gain [dBi] | Peak gain [dBi] |
|-----------------|----------------|--------------------|-----------------|
| 2400 | 22.29 | -6.52 | -1.79 |
| 2442 | 21.09 | -6.76 | -2.53 |
| 2485 | 25.00 | -6.02 | -1.35 |
| 5150 | 30.65 | -5.14 | 0.47 |
| 5500 | 41.72 | -3.80 | 0.38 |
| 5850 | 28.72 | -5.42 | -0.86 |



2-1. Radiation pattern



3. Active TEST

| Model | Antenna | TEST | Wi-Fi (802.11b) | | | Wi-Fi (802.11a) | | |
|--|---------------|---------|-----------------|-------|-------|-----------------|--------|--------|
| | | Channel | CH 1 | CH 6 | CH 11 | CH 149 | CH 157 | CH 165 |
| DR970X Plus #1 23.08.17 측정 data | SHDA10312442B | TRP | - | 14.01 | - | - | 15.93 | - |
| | | TIS | - | 79.47 | - | - | 69.31 | - |

| Model | Antenna | TEST | Wi-Fi (802.11b) | | | Wi-Fi (802.11a) | | |
|---|---------------|---------|-----------------|-------|-------|-----------------|--------|--------|
| | | Channel | CH 1 | CH 6 | CH 11 | CH 149 | CH 157 | CH 165 |
| DR970X Plus #15 23.08.17 측정 data | SHDA10312442B | TRP | - | 13.04 | - | - | - | - |
| | | TIS | - | 81.15 | - | - | - | - |

3. Active TEST

| Model | Antenna | TEST | Wi-Fi (802.11b) | | | Wi-Fi (802.11a) | | |
|--|---------------|---------|-----------------|------|-------|-----------------|--------|--------|
| | | | CH 1 | CH 6 | CH 11 | CH 149 | CH 157 | CH 165 |
| DR970X Plus #1 23.09.11 측정 data | SHDA10312442B | Channel | | | | | | |
| | | TRP | - | - | - | - | 13.39 | - |
| | | TIS | - | - | - | - | 68.74 | - |

| Model | Antenna | TEST | Wi-Fi (802.11b) | | | Wi-Fi (802.11a) | | |
|--|---------------|---------|-----------------|------|-------|-----------------|--------|--------|
| | | | CH 1 | CH 6 | CH 11 | CH 149 | CH 157 | CH 165 |
| DR970X Plus #2 23.09.11 측정 data | SHDA10312442B | Channel | | | | | | |
| | | TRP | - | - | - | - | 13.87 | - |
| | | TIS | - | - | - | - | 67.39 | - |

| Model | Antenna | TEST | Wi-Fi (802.11b) | | | Wi-Fi (802.11a) | | |
|---|---------------|---------|-----------------|------|-------|-----------------|--------|--------|
| | | | CH 1 | CH 6 | CH 11 | CH 149 | CH 157 | CH 165 |
| DR970X Plus #6 SCAP 23.09.11 측정 data | SHDA10312442B | Channel | | | | | | |
| | | TRP | - | - | - | - | 14.14 | - |
| | | TIS | - | - | - | - | 57.40 | - |

| Model | Antenna | TEST | Wi-Fi (802.11b) | | | Wi-Fi (802.11a) | | |
|---|---------------|---------|-----------------|------|-------|-----------------|--------|--------|
| | | | CH 1 | CH 6 | CH 11 | CH 149 | CH 157 | CH 165 |
| DR970X Plus #15 23.09.11 측정 data | SHDA10312442B | Channel | | | | | | |
| | | TRP | - | - | - | - | 15.53 | - |
| | | TIS | - | - | - | - | 58.17 | - |

3. Active TEST

| Model | Antenna | TEST | Wi-Fi (802.11b) | | | Wi-Fi (802.11a) | | |
|-------------------------|----------------------|---------|-----------------|------|-------|-----------------|--------|--------|
| | | Channel | CH 1 | CH 6 | CH 11 | CH 149 | CH 157 | CH 165 |
| DR970X Plus #1 | SHDA10312442B | TRP | - | - | - | - | 13.80 | - |
| 23.09.13 측정 data | | TIS | - | - | - | - | 69.63 | - |

| Model | Antenna | TEST | Wi-Fi (802.11b) | | | Wi-Fi (802.11a) | | |
|-------------------------|----------------------|---------|-----------------|------|-------|-----------------|--------|--------|
| | | Channel | CH 1 | CH 6 | CH 11 | CH 149 | CH 157 | CH 165 |
| DR970X Plus #15 | SHDA10312442B | TRP | - | - | - | - | 16.75 | - |
| FCAM-PCB-CUT | | TIS | - | - | - | - | 68.90 | - |
| 23.09.13 측정 data | | | | | | | | |
| DR970X Plus #15 | SHDA10312442B | TRP | - | - | - | - | 16.15 | - |
| OS08A10_FCAN-DEL | | TIS | - | - | - | - | 67.24 | - |
| 23.09.13 측정 data | | | | | | | | |