# 承認書

## SPECIFICATION FOR APPROVAL

■樣品承認□新品承認□規格/材質變更承認

| | | | |
|---|---|---|---|
| 客戶名稱(Customer): | 東荃科技股份有限公司 | | |
| 客戶料號(Customer P/N): | | | |
| 產品料號(Product No.): | A8-A003-00185 | | |
| 產品品名(Product Name)： | DIP 2400MHz~2500MHz/5150MHz~5850MHz 2.3dBi/4.5dBi OD10 L133.6 black SMA-RP PLUG | | |
| 文件編號(Approved No)： | | | |
| 日期(Issued Date)： | 2021 年 10 月 25日 | | |
| 客戶承認簽章 Customer Approval Signature | In Charge | Checked | Approval |
| | | | |

TSKY™ 天凱科技股份有限公司 TSKY CO., LTD.
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| 業務 | 核准 | 審核 | 主辦員 |
|---|---|---|---|
| | | | |

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# Specification

## • Electrical Properties :

1. Frequency : 2400MHz~2500MHz/5150MHz~5850MHz
2. Impedance : 50Ω
3. S.W.R. : ≦2.0
4. Peak Gain : 2.3dBi/ 4.5dBi

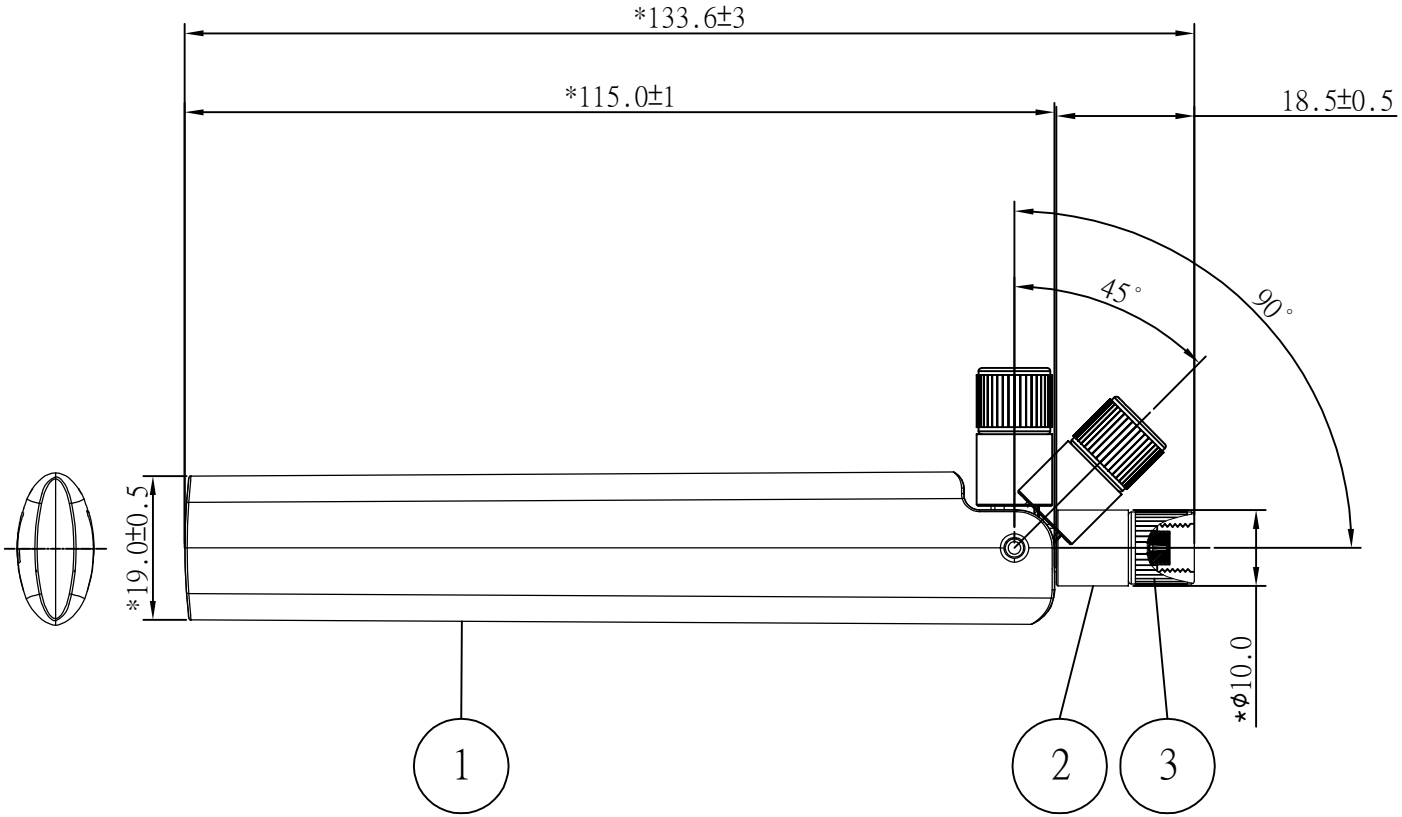
## • Physical Properties :

1. Material :

   Antenna cover :ABS(BLACK)

   Antenna BASE : PBT+PC (BLACK)
2. Connector : SMA-RP PLUG
3. Operation temperature : -30℃~ +65℃
4. Storage temperature : -30℃~ +85℃

| REV | ECN NO. | DRAWING | DESCRIPTION | APPROVED | DATE |
|---|---|---|---|---|---|
| X1 | | Jane | 初次發行 | Gary | 2021/10/25 |




ELECTRICAL :

Frequency:2.4GHz~2.5GHz/5.15GHz~5.85GHz

Impedance:50Ω

S.W.R. : ≦2.0

Peak Gain: 2.3dBi/4.5Bi

Radiation:O mni

MECHANICAL :

Antenna Cover:ABS

Antenna Base:PBT+PC

Color:BLACK

Operating Temperature:-30°C~+65°C

Storage Temperature:-30°C~+85°C

NOTE:*為重點尺寸檢驗

| NO. | PART NO. | SPECIFICATION | Q'TY |
|---|---|---|---|
| 3. | | Connector:SMA-RP PLUG 公頭母針 | 1 |
| 2. | | ANTENNA BASE :PBT+PC / BLACK | 1 |
| 1. | | ANTENNA COVER: ABS /BLACK | 1 |

| TOLERANCE UNLESS OTHERWISE SPECIFIED | | | |
|---|---|---|---|
| DIMENSION | | ANGLES | |
| .X± | 0.2 | X.°± | 0.5 |
| .XX± | 0.1 | | |
| .XXX± | 0.05 | | |

**TSKY CO., LTD.**

| CONFIDENTIAL | FINISH: | | |
|---|---|---|---|
| | SIZE: A4 | UNIT: mm | SCALE: 1:1 |
| DRAWING | DESIGNED | CONCURRED | APPROVED |
| Jane | | | Gray |

INITIAL MODEL:

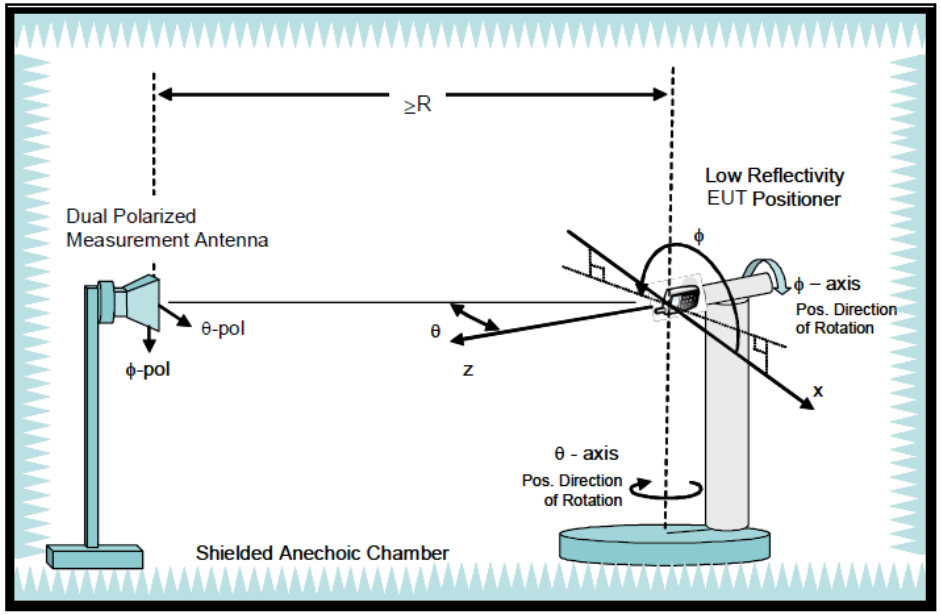
PART NAME
DIP
2400MHz~2500MHz/5150MHz~5850MHz
2.3dBi/4.5dBi OD10 L133.6 black
SMA-RP PLUG

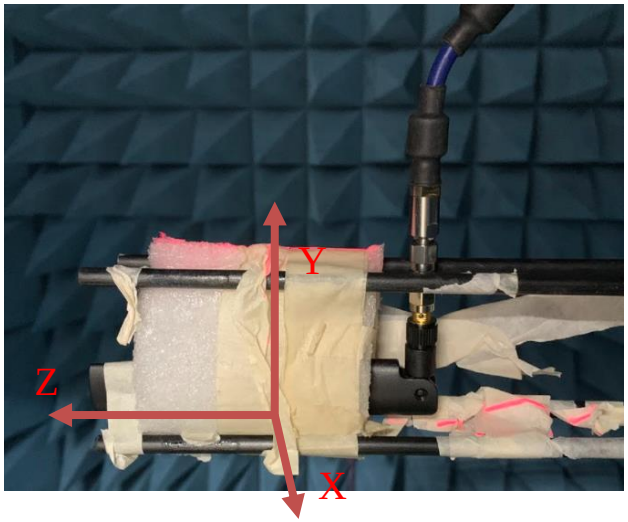
| PART NO. | REV. | SHT. |
|---|---|---|
| A8-A003-00185 | X1 | 1/1 |

# 東荃A8-A003-00185
# WiFi Antenna Test Report

Created : 2021-10-22

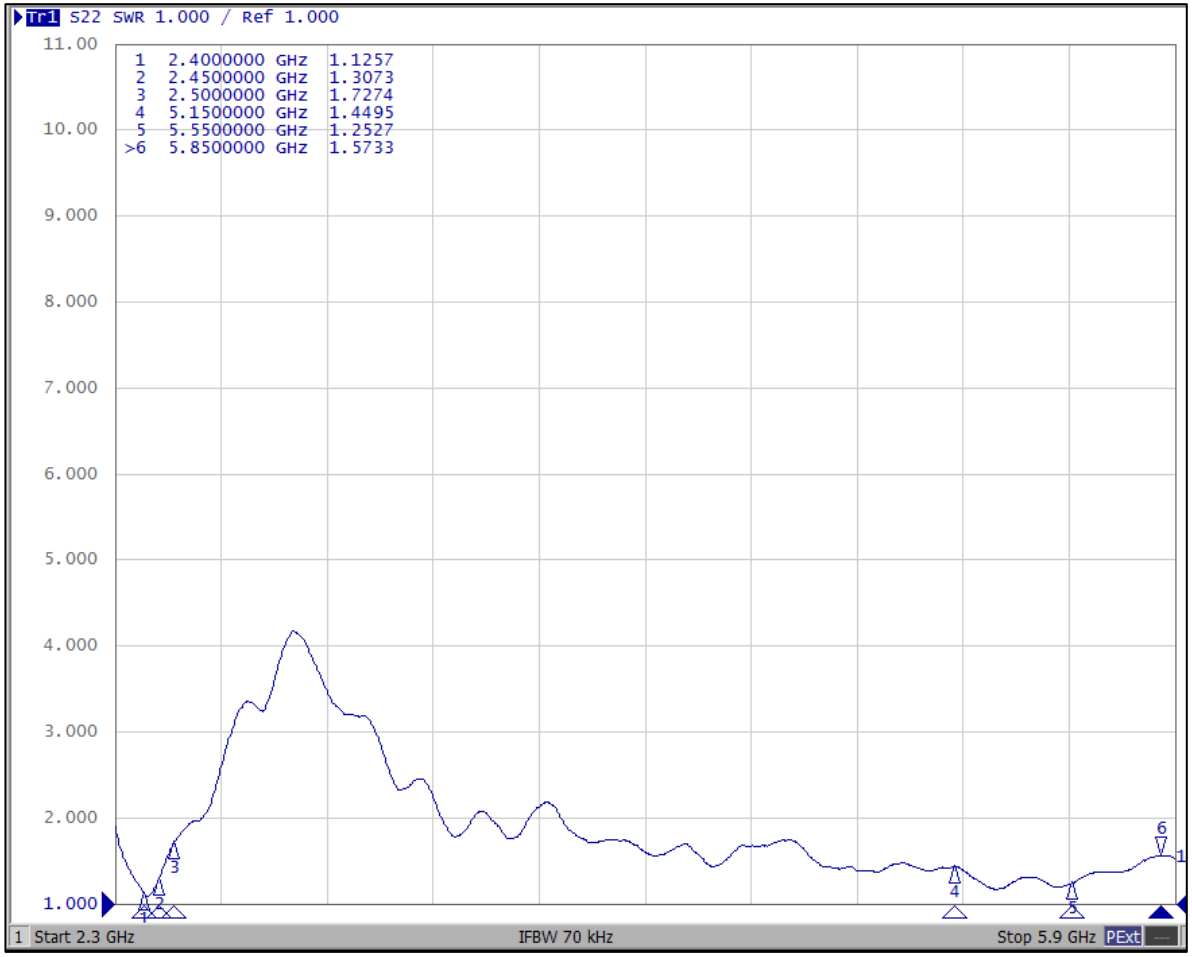
# Antenna Coordinate System Definition



# VSWR

Antenna # 01



# Antenna Gain and Efficiency

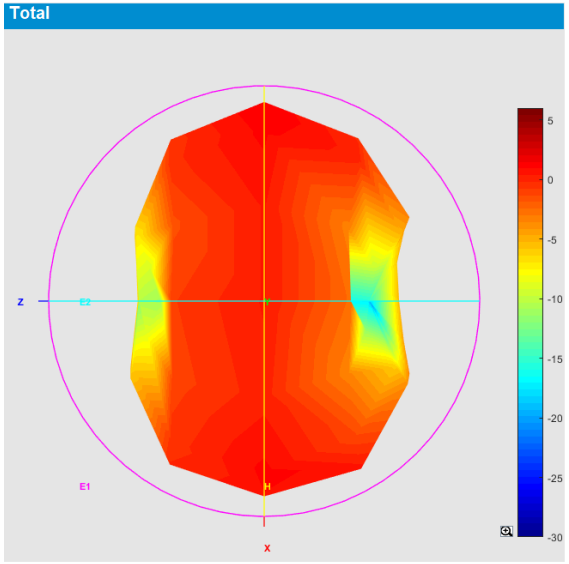
Antenna # 01

| Frequency | 2.4GHz | 2.45GHz | 2.5GHz | 5.15GHz | 5.55GHz | 5.85GHz |
|---|---|---|---|---|---|---|
| Efficiency (%) | 67.13 | 54.23 | 63.81 | 71.22 | 78.65 | 60.01 |
| Gain (dBi) | 2.33 | 1.67 | 1.95 | 4.56 | 4.33 | 3.18 |

# 3D Radiation Pattern

Antenna # 01  (2400MHz)

XZ

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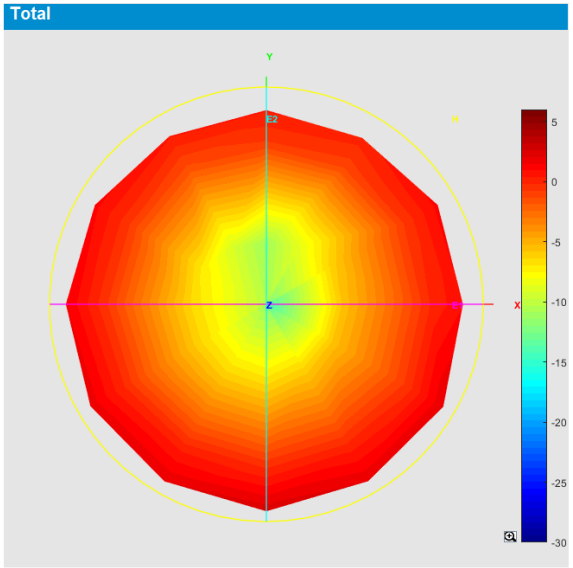
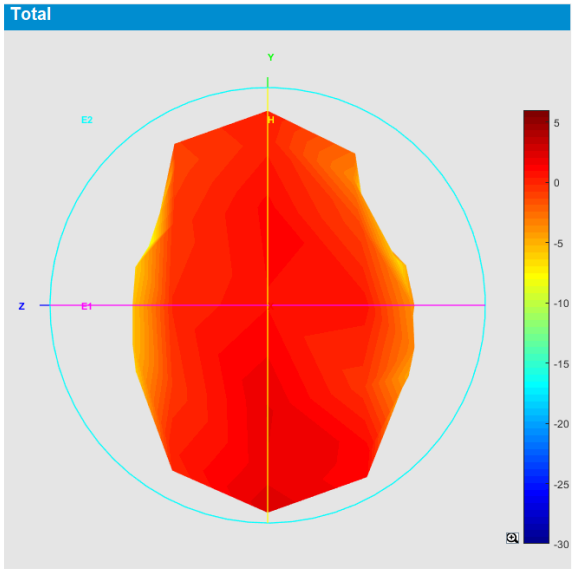


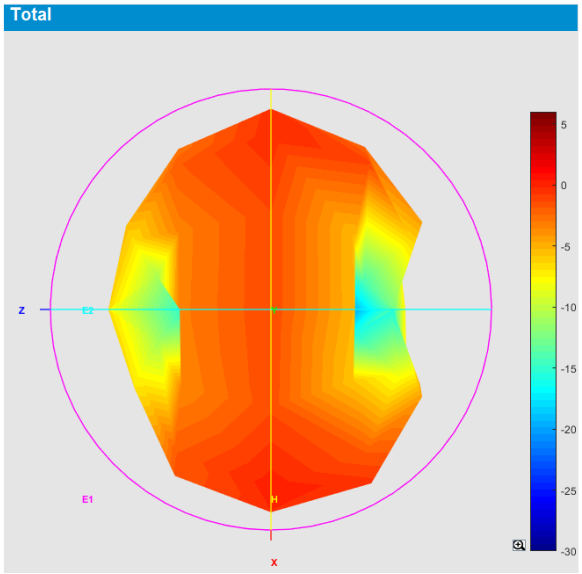

YZ



# 3D Radiation Pattern

Antenna # 01  (2450MHz)

XZ

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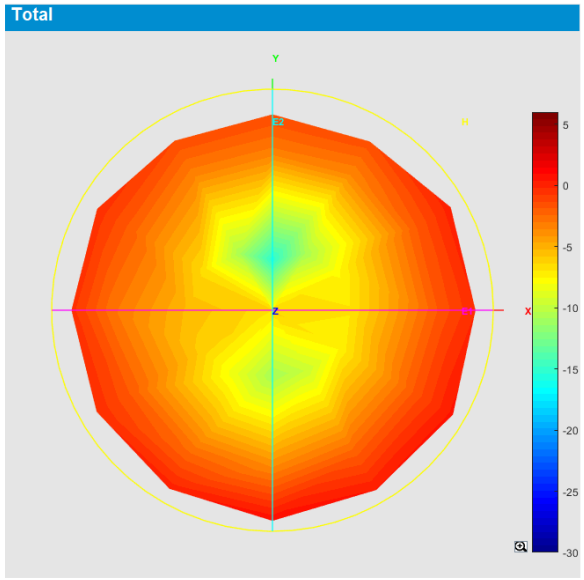
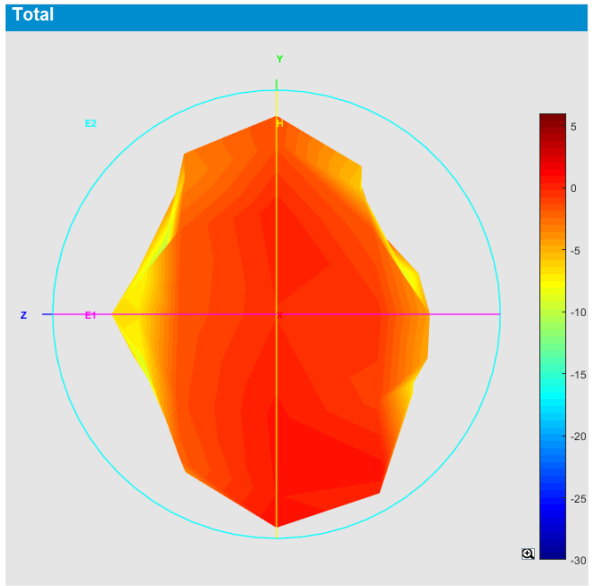


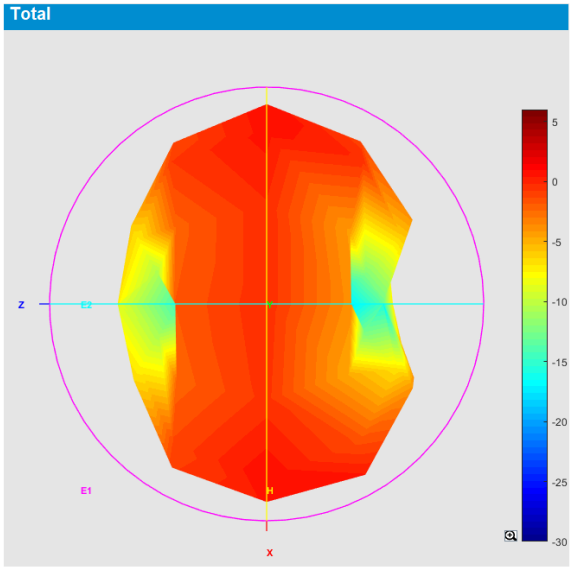

YZ



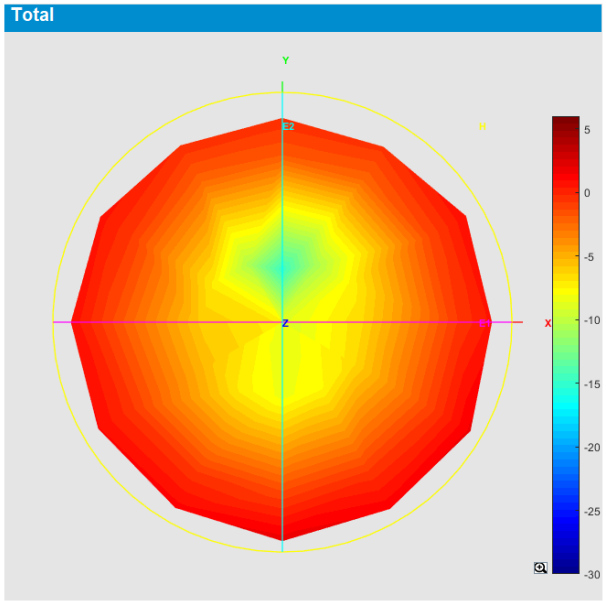
# 3D Radiation Pattern

Antenna # 01  (2500MHz)

XZ




XY

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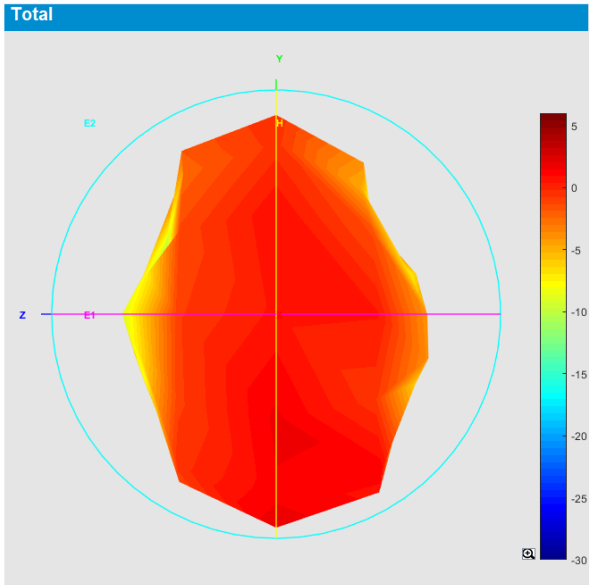
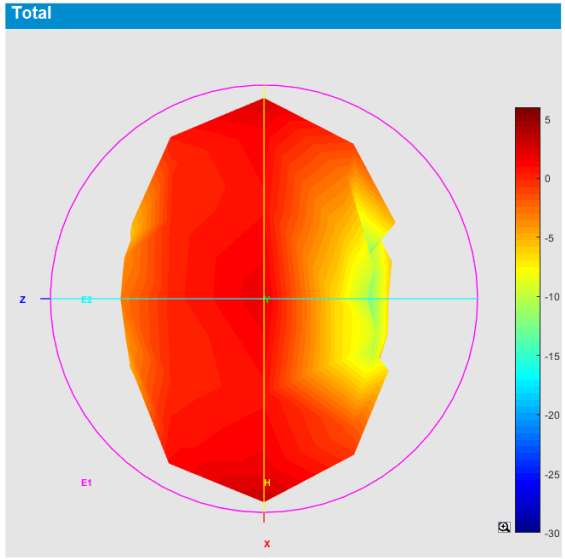


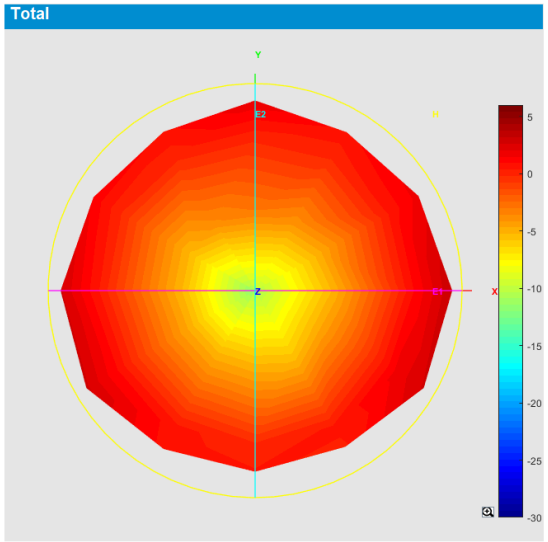
# 3D Radiation Pattern

Antenna # 01  (5150MHz)

XZ




XY

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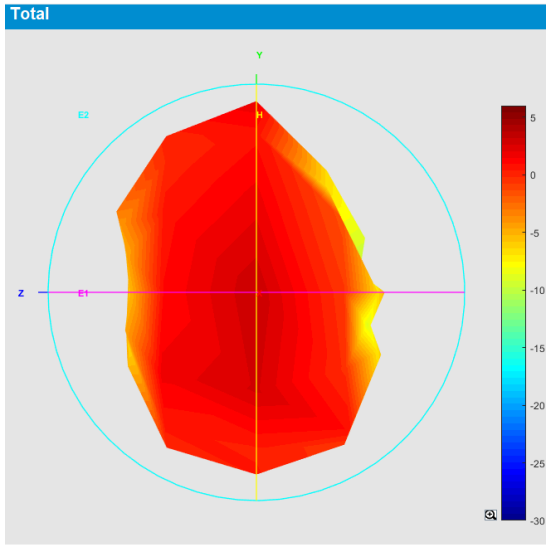
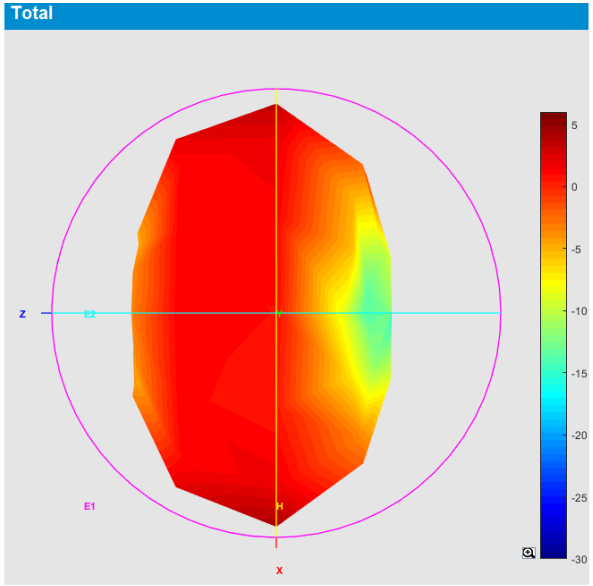


# 3D Radiation Pattern

Antenna # 01 (5500MHz)

XZ

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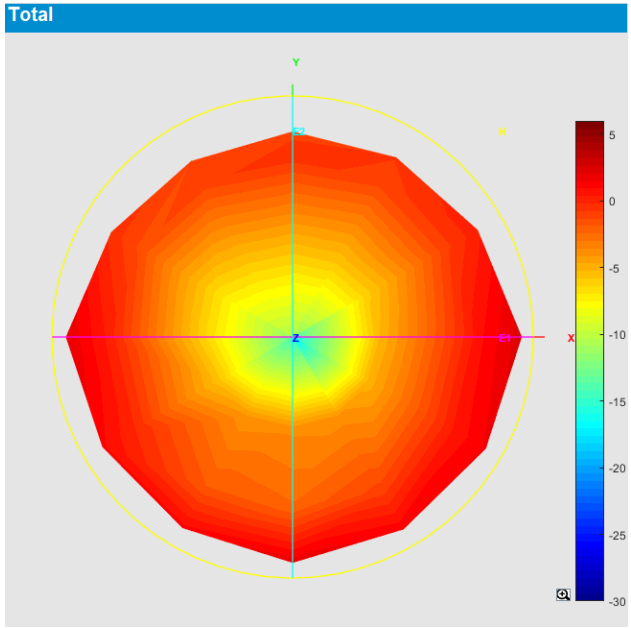


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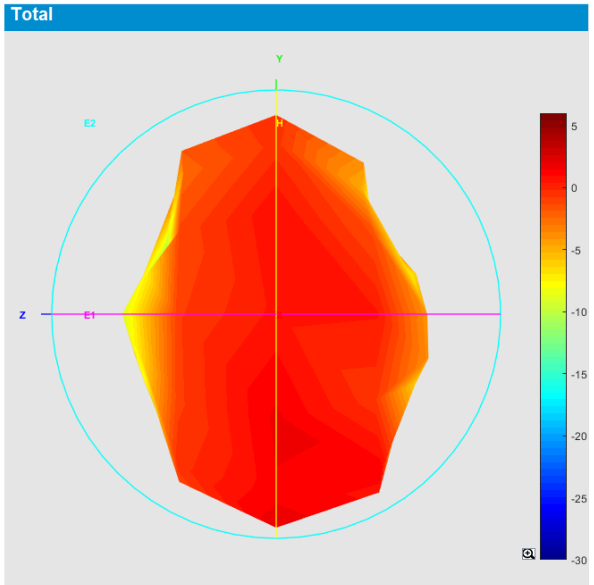
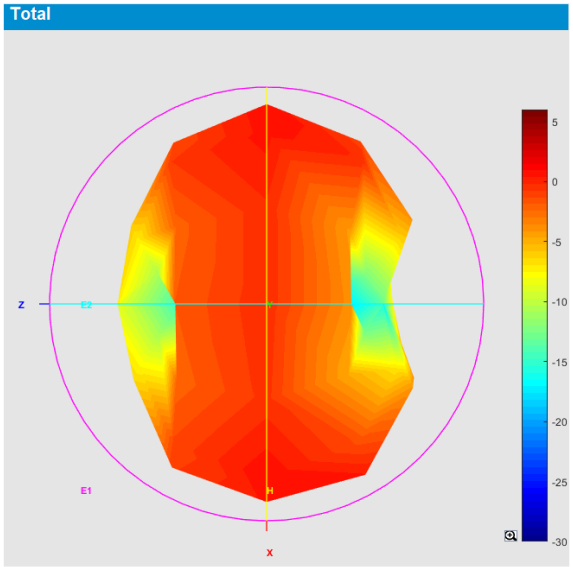


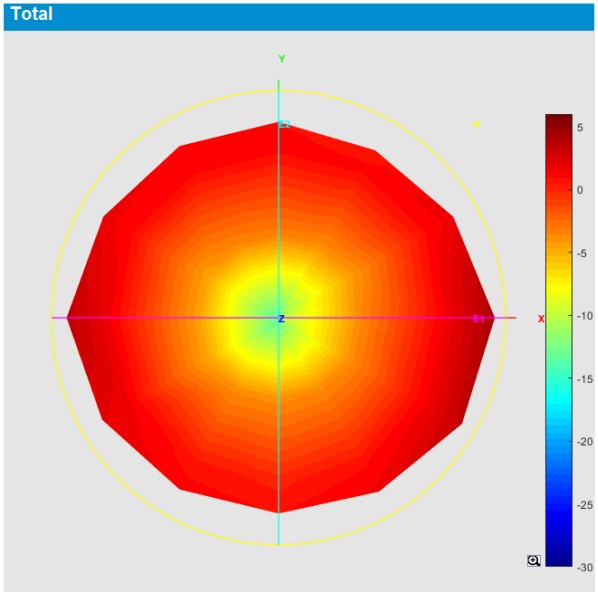
# 3D Radiation Pattern

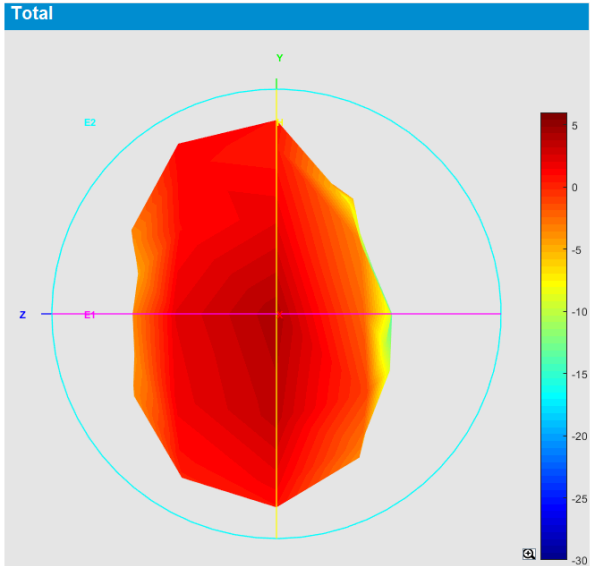
Antenna # 01  (5850MHz)

XZ




XY




YZ