

產 品 規 格 承 認 書

SPECIFICATION FOR APPROVAL

Customer : Sysgration

Vendor code : 100947(臺鑫)

MACHINERY: Swallowtail

PART NAME : WIFI MAIN

Customer P/N : 354-0000491

Manufacturer P/N : TZ2977E Date : 250212

CUSTOMER			
ACCEPTED BY :			
核 准	審 核	承 認 者	承 認 單 位
☐ APPROVED ☐ REJECTED			

審 核 by	作 成 by	RF by
CHEN/YY	KEN	Charles

Series: Swallowtail

Customer P/N: 354-0000491

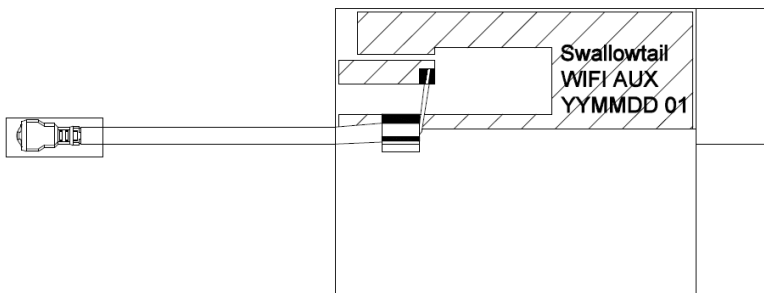
Manufacturer P/N: TZ2977E

Revisions

[illegible]

Series: Swallowtail**Customer P/N: 354-0000491****Manufacturer P/N: TZ2977E****Features:**

- WIFI Antenna
- PCB
- 1.13 cable LL
- RoHS

**Applications:**

- IOT

All dimensions are in mm / inches

Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

ELECTRICAL SPECIFICATIONS

Antenna Type	PIFA
Frequency	2.4~2.5GHz / 5.15~5.85GHz

MECHANICAL SPECIFICATIONS

Overall Length	See table, P5
Antenna Color / Material	See table, P5
Connector type	See table, P5
Cable type	See table, P5
Cable length	See table, P5
Adhesive tape	See table, P5

ENVIRONMENTAL SPECIFICATIONS

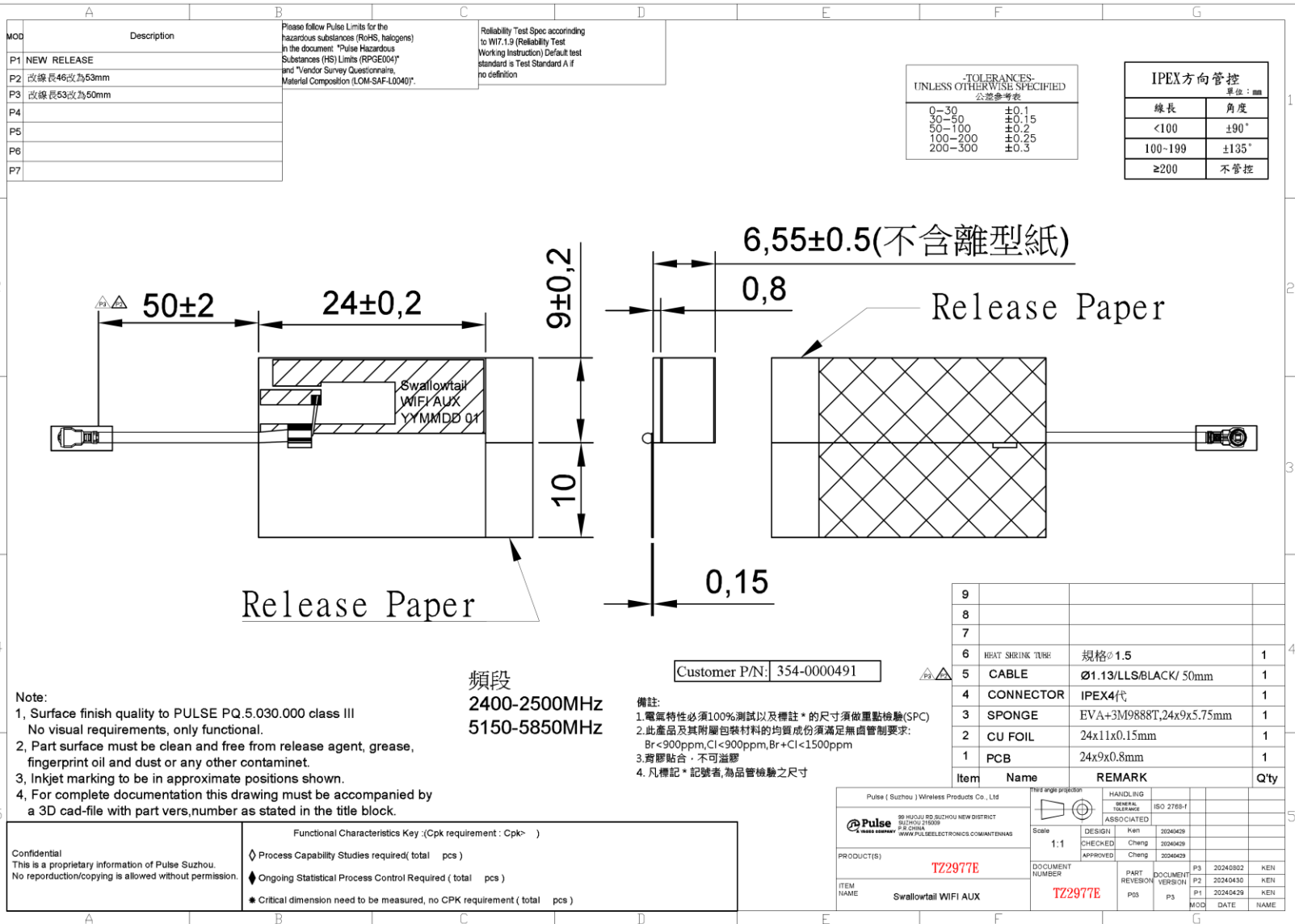
Operating Temperature	-40 ~ +85°C
Storage Temperature	-40 ~ +85°C
RoHS Compliant	Yes

Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

MECHANICAL DRAWING



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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

Electrical test_VSWR



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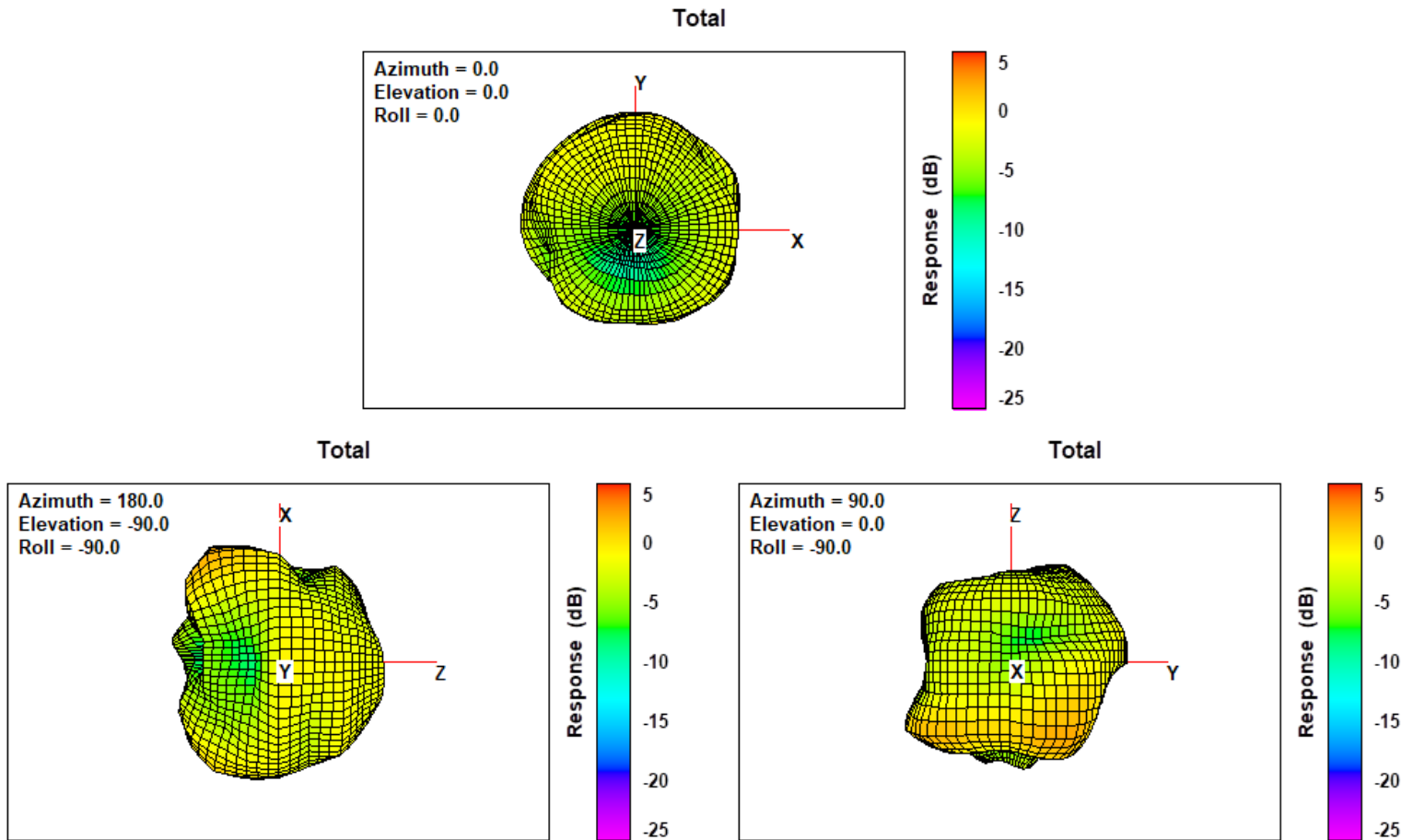
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_2400MHz [WIFI MAIN]



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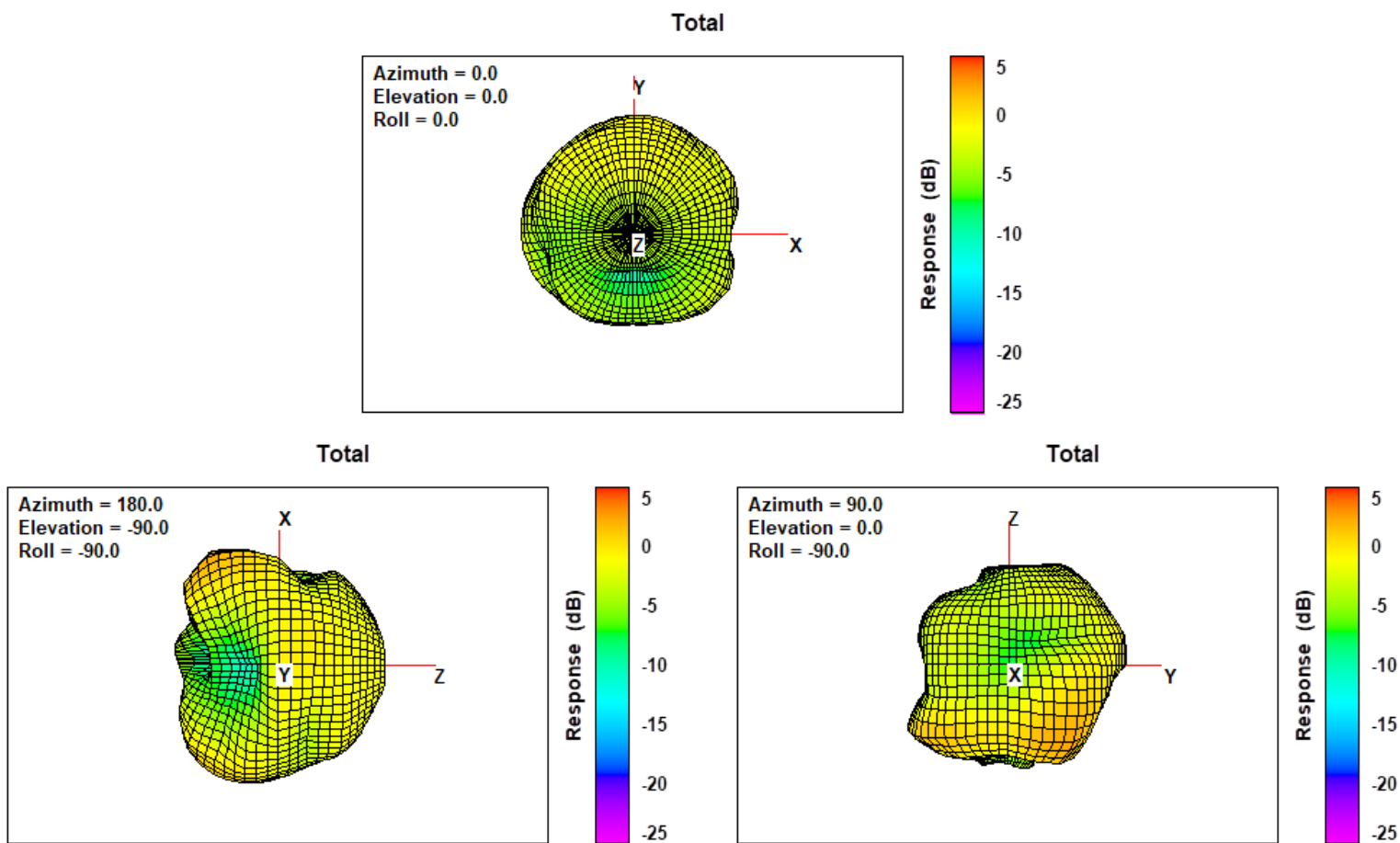
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_2450MHz [WIFI MAIN]



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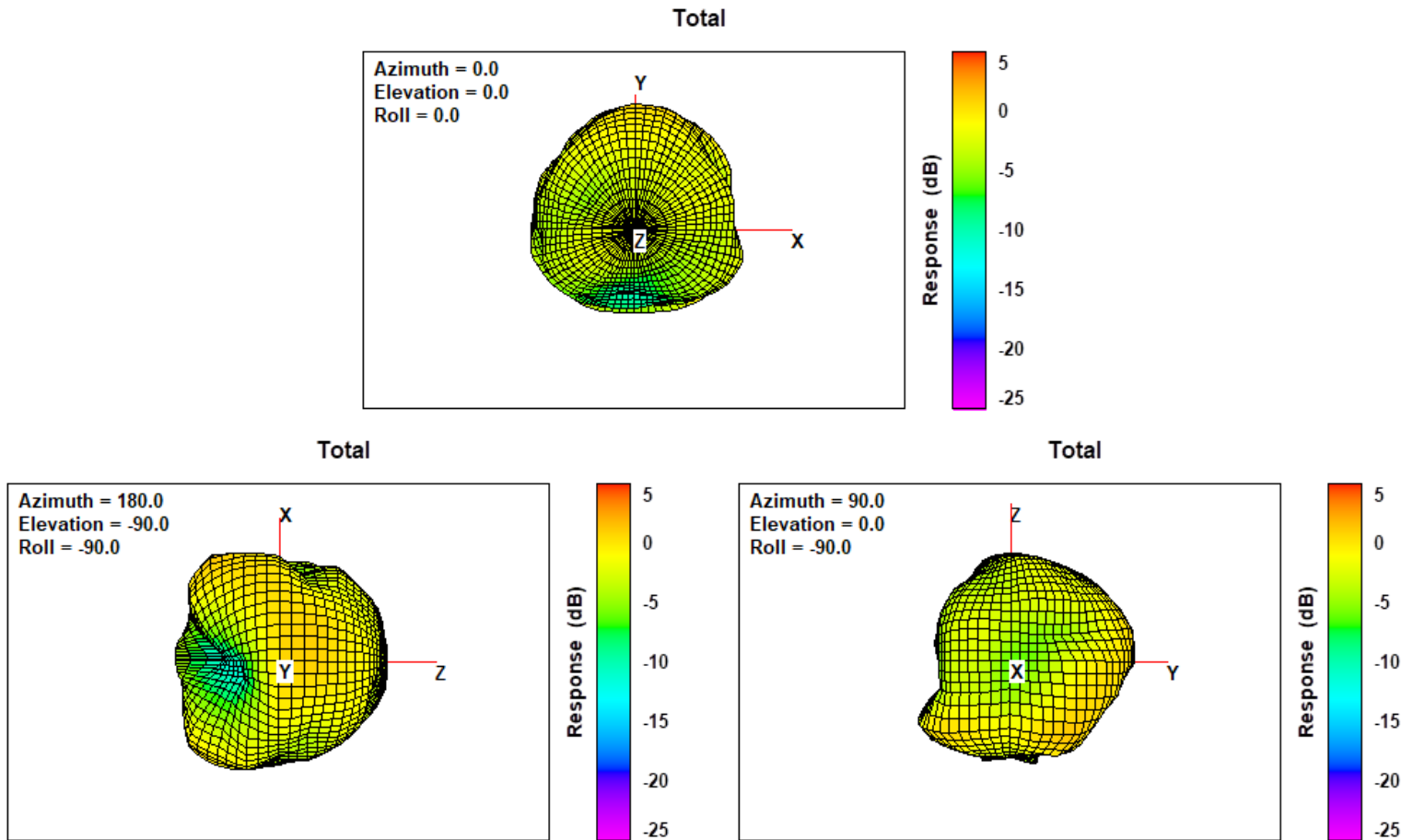
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_2500MHz [WIFI MAIN]



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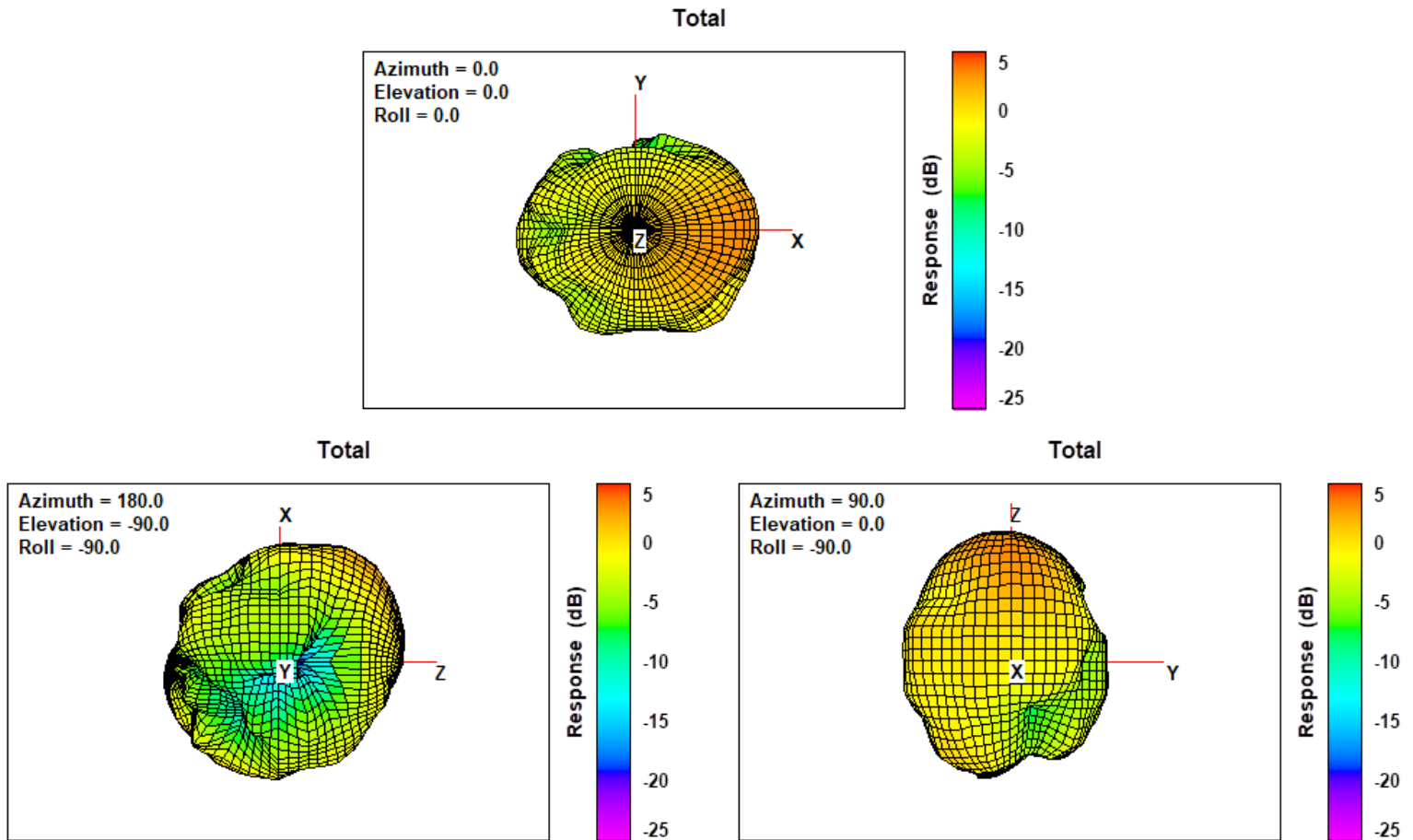
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_5150MHz [WIFI MAIN]



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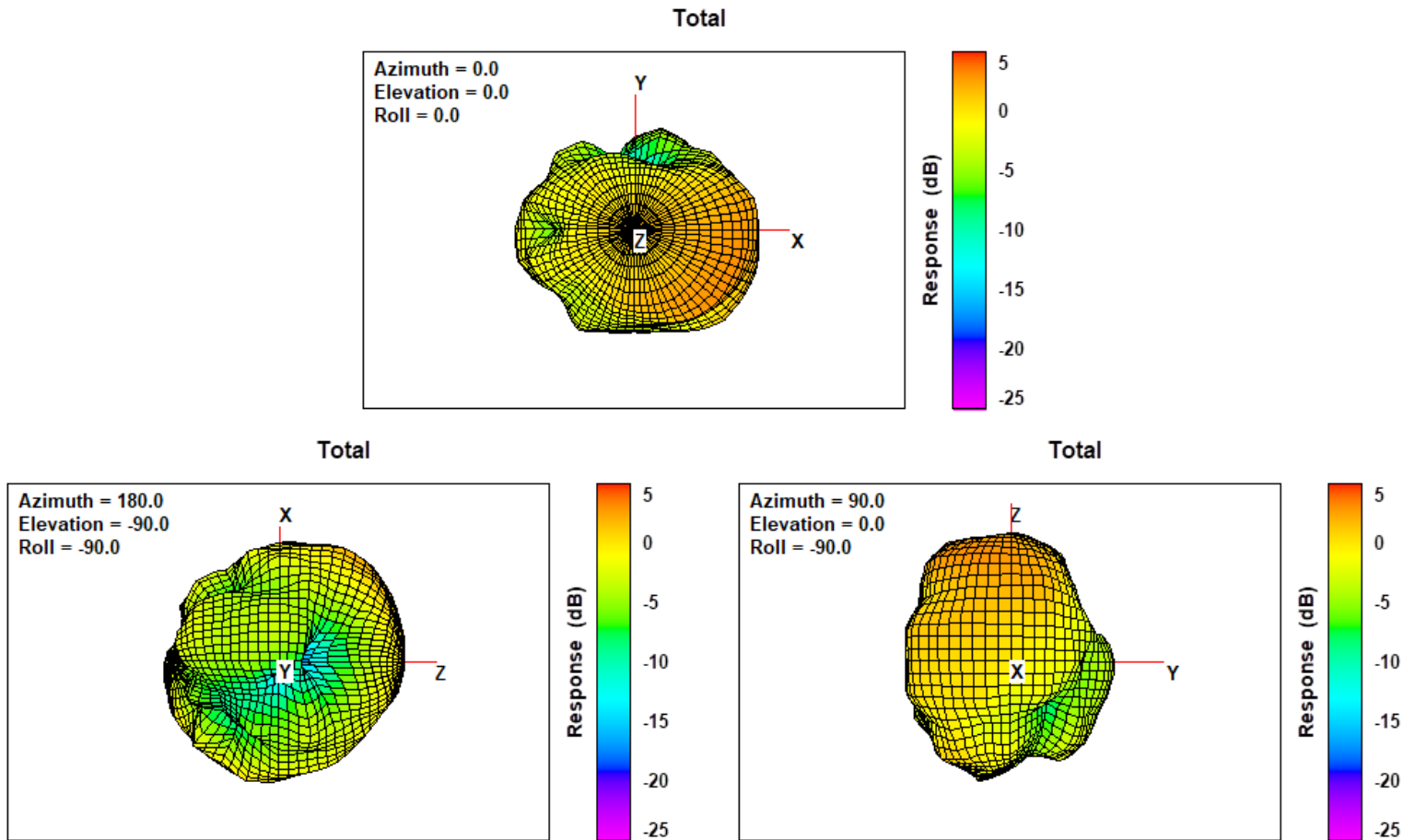
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_5250MHz [WIFI MAIN]



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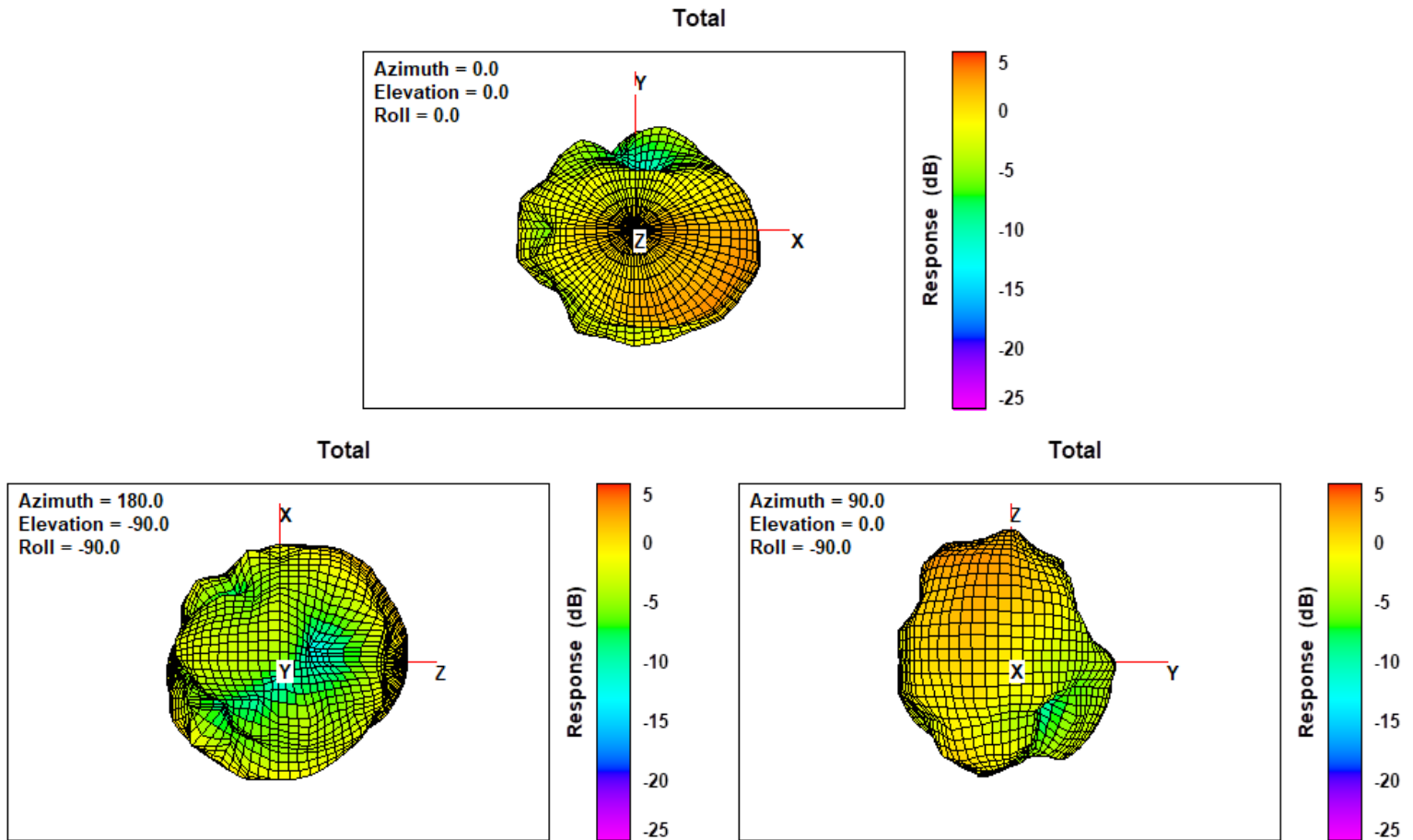
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_5350MHz [WIFI MAIN]



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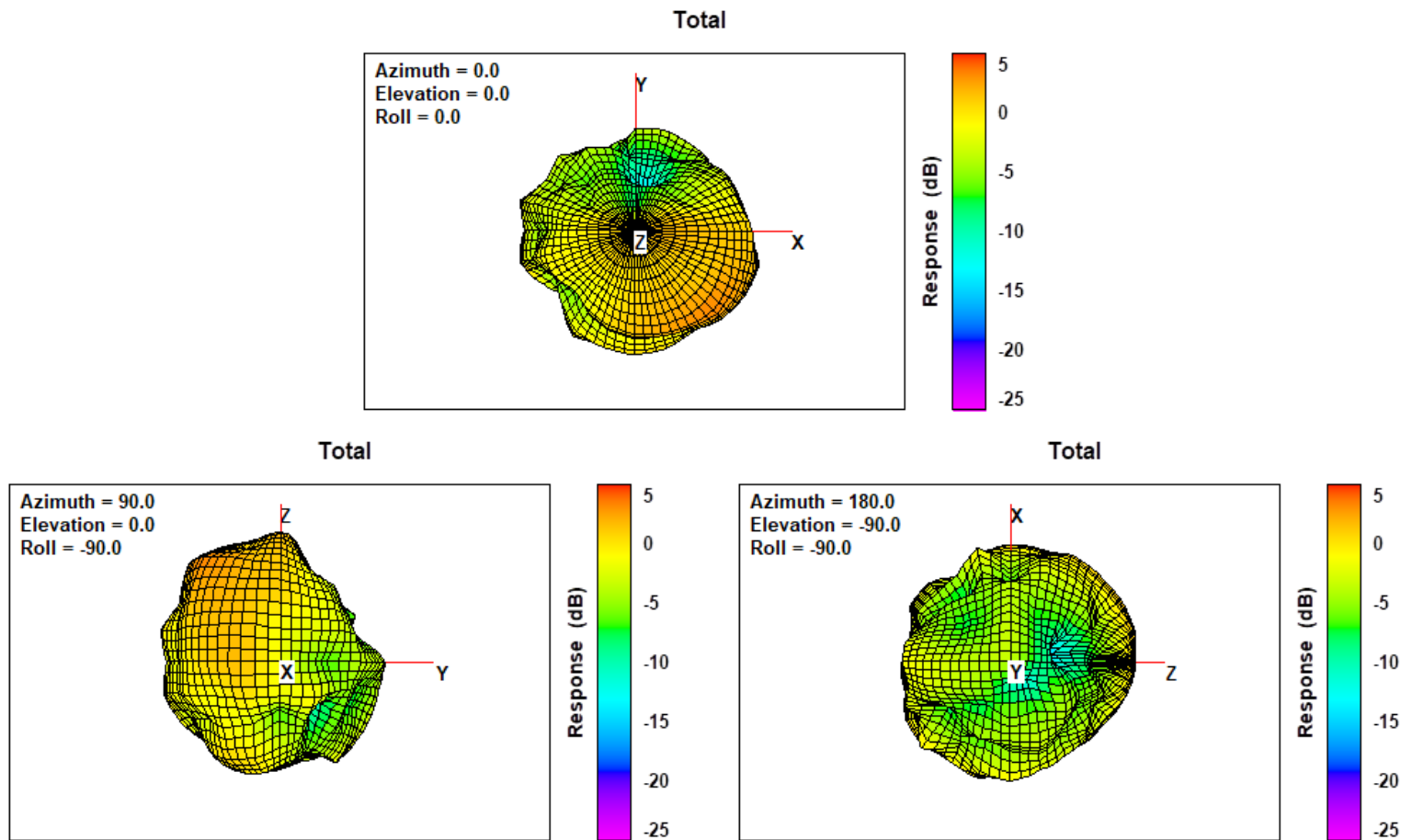
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_5470MHz [WIFI MAIN]



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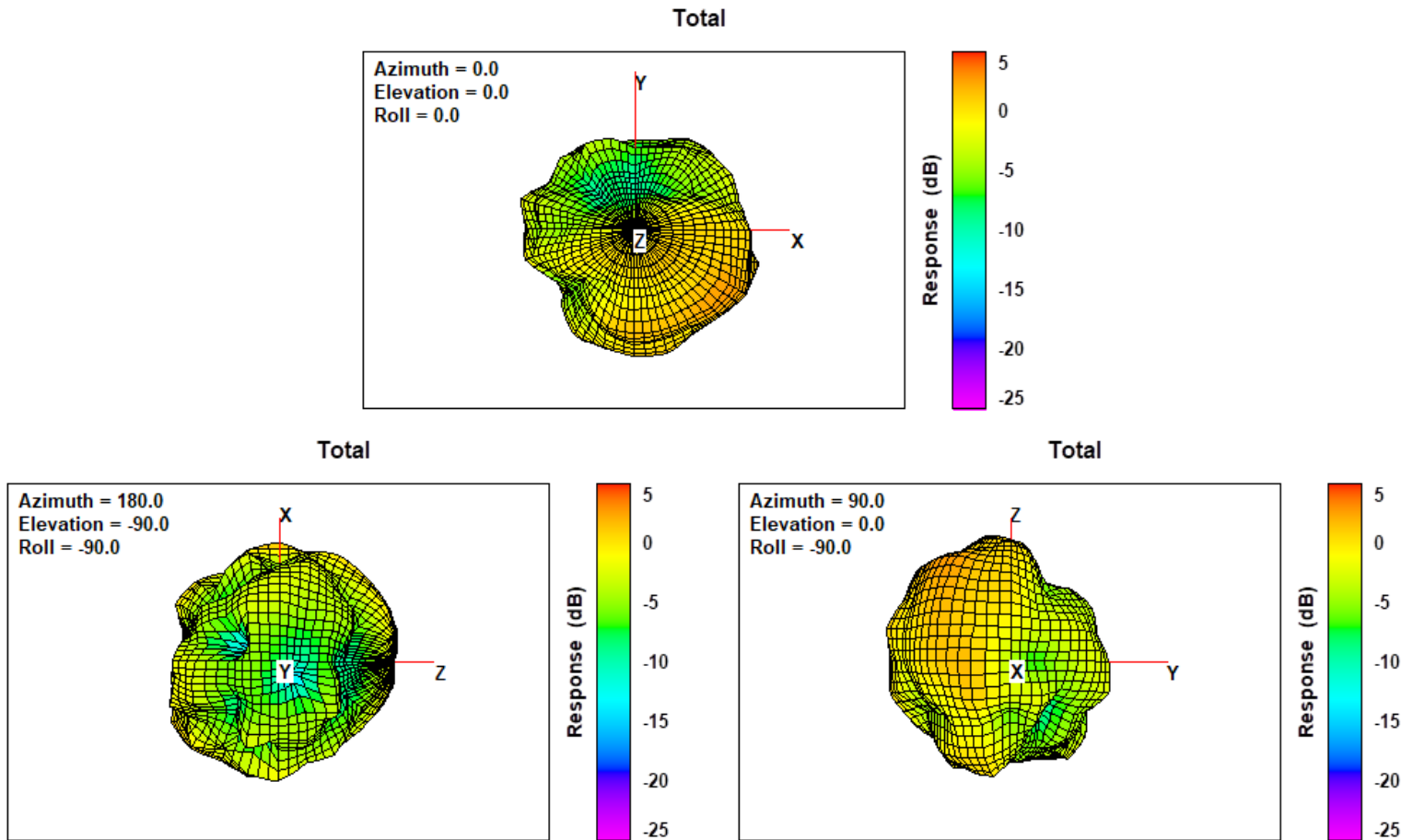
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_5600MHz [WIFI MAIN]



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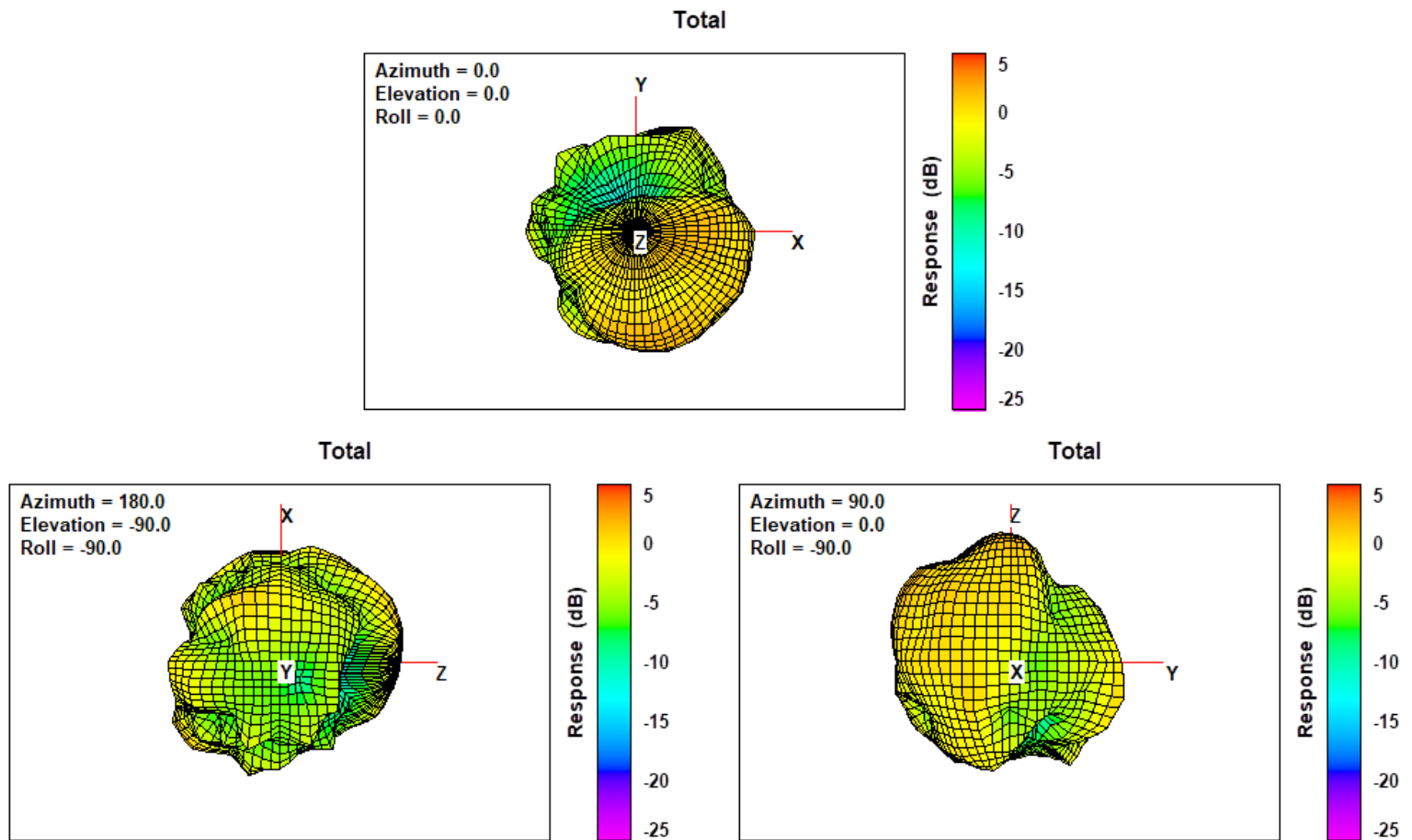
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_5725MHz [WIFI MAIN]



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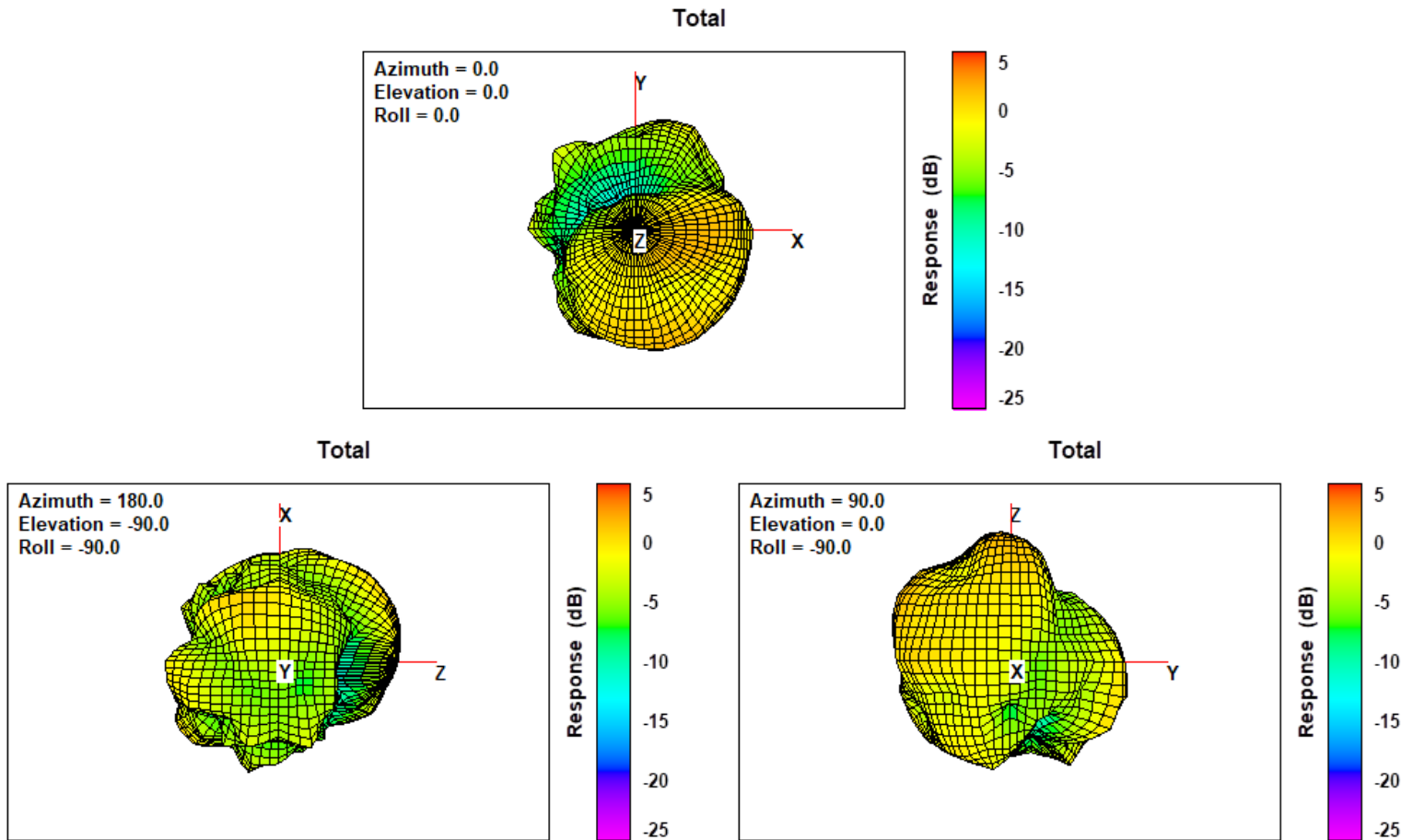
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_5785MHz [WIFI MAIN]



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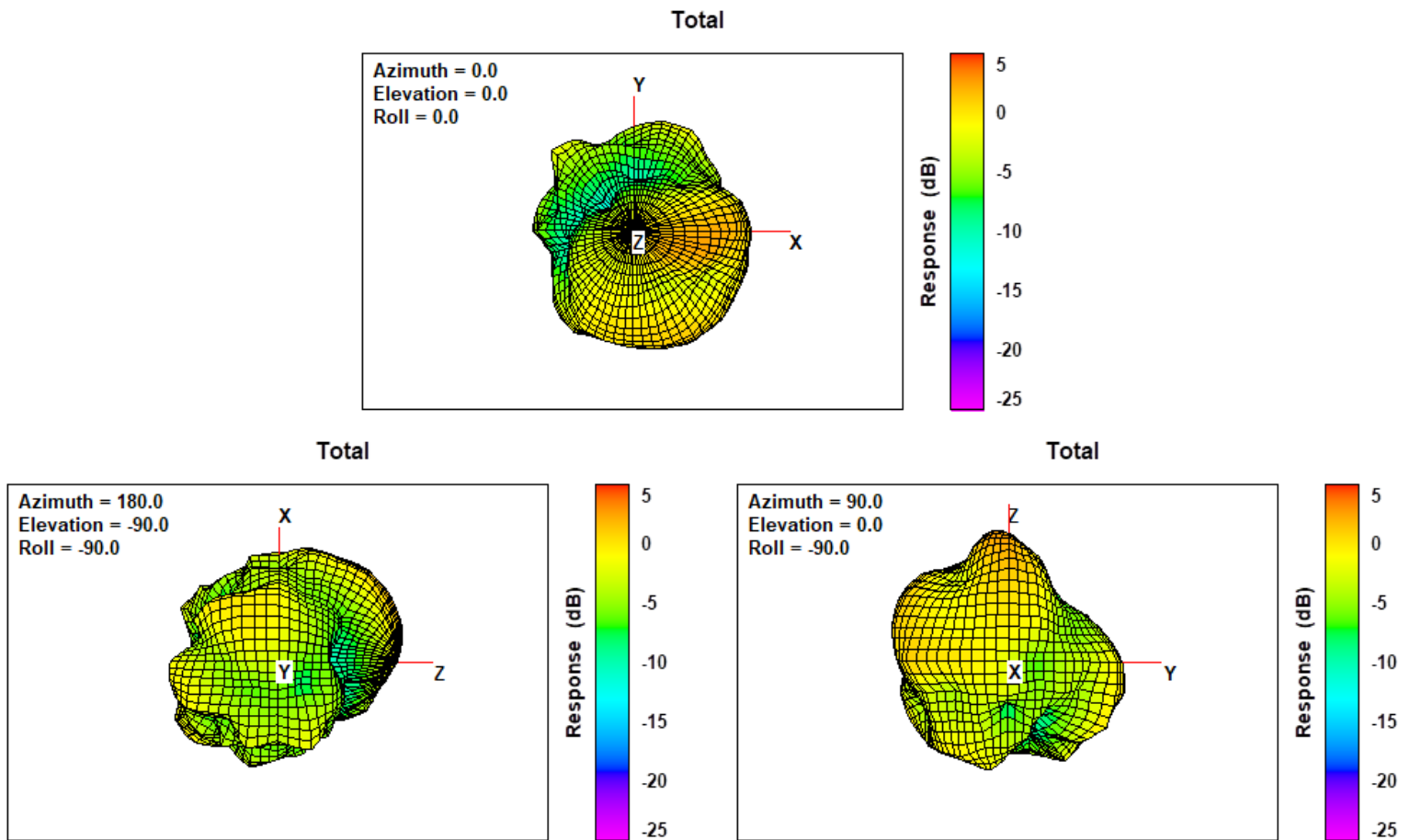
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

3D Radiation_5850MHz [WIFI MAIN]



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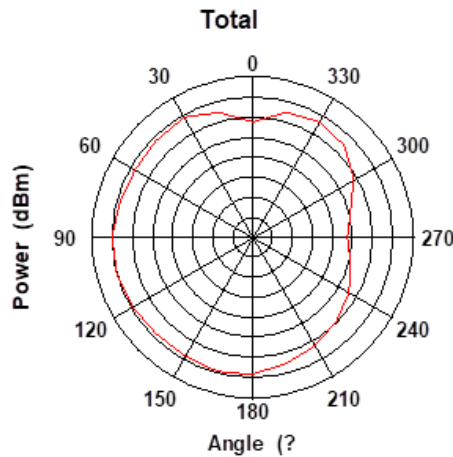
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Series: Swallowtail

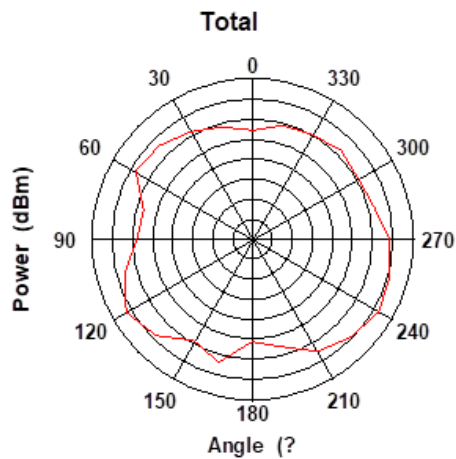
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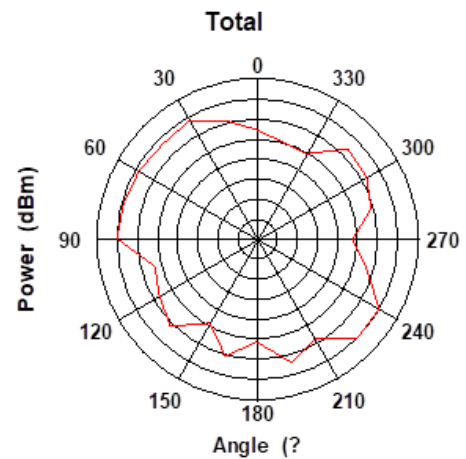
2D Radiation_2400MHz [WIFI MAIN]



Cut-1 XY Plane



Cut-2 XZ Plane



Cut-3 YZ Plane

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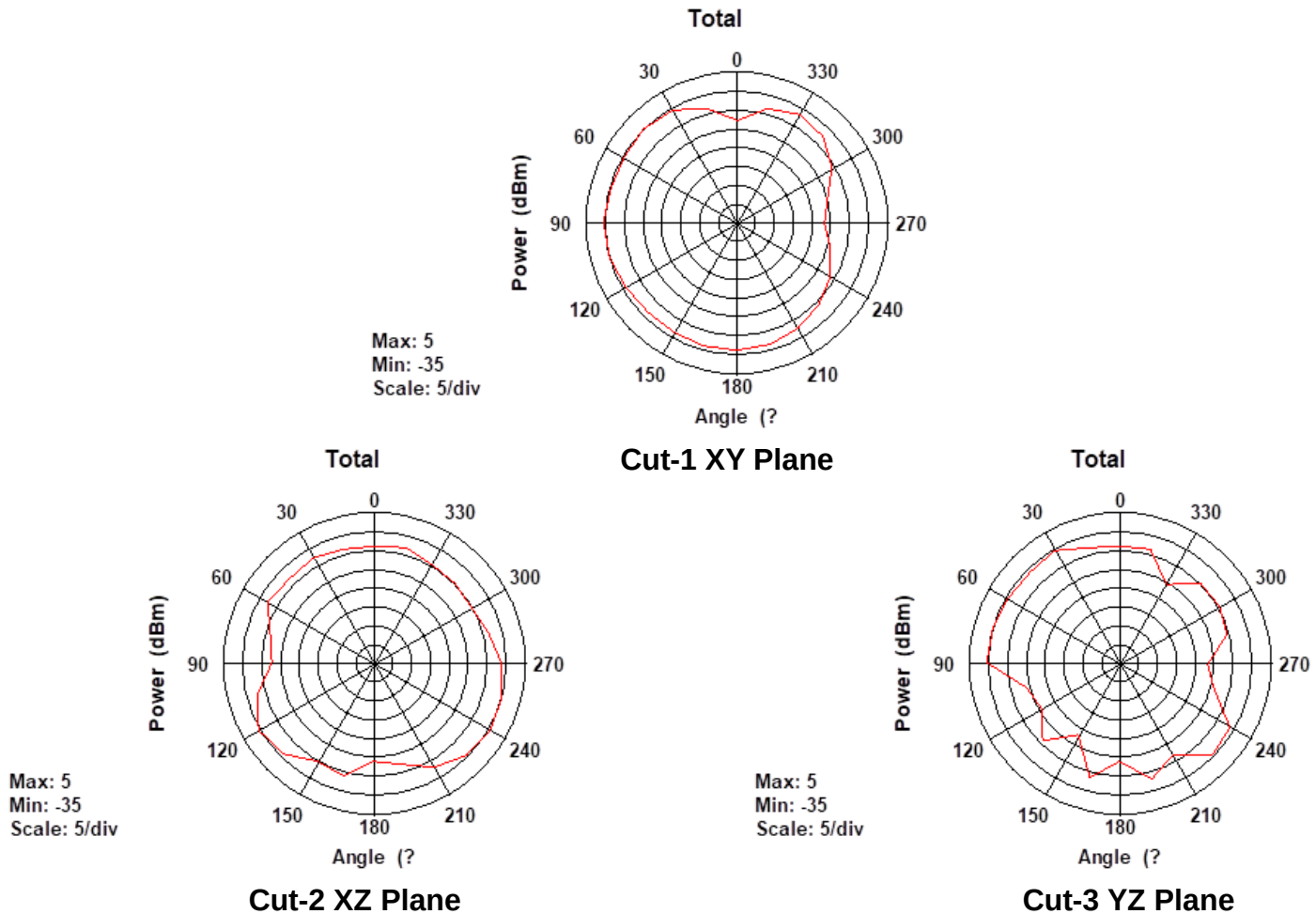
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

2D Radiation_2450MHz [WIFI MAIN]



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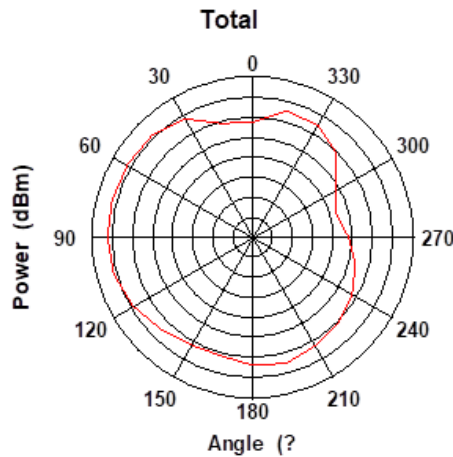
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Series: Swallowtail

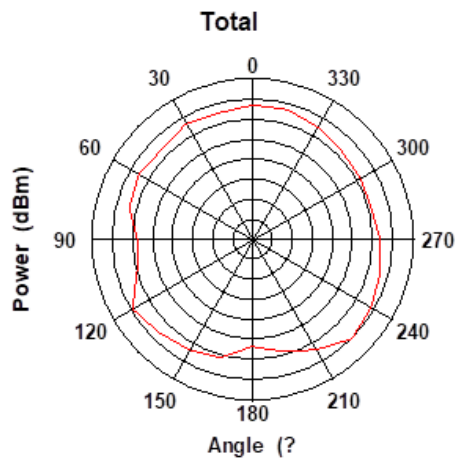
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Manufacturer P/N: TZ2977E

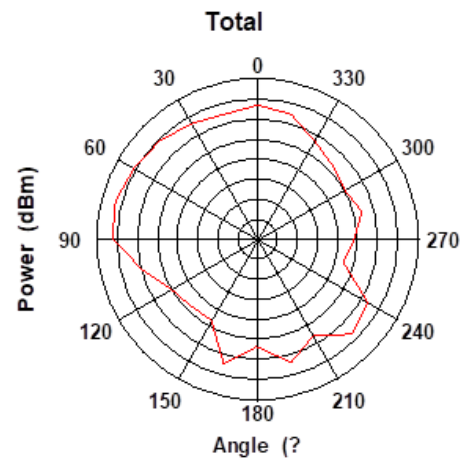
2D Radiation_2500MHz [WIFI MAIN]



Cut-1 XY Plane



Cut-2 XZ Plane



Cut-3 YZ Plane

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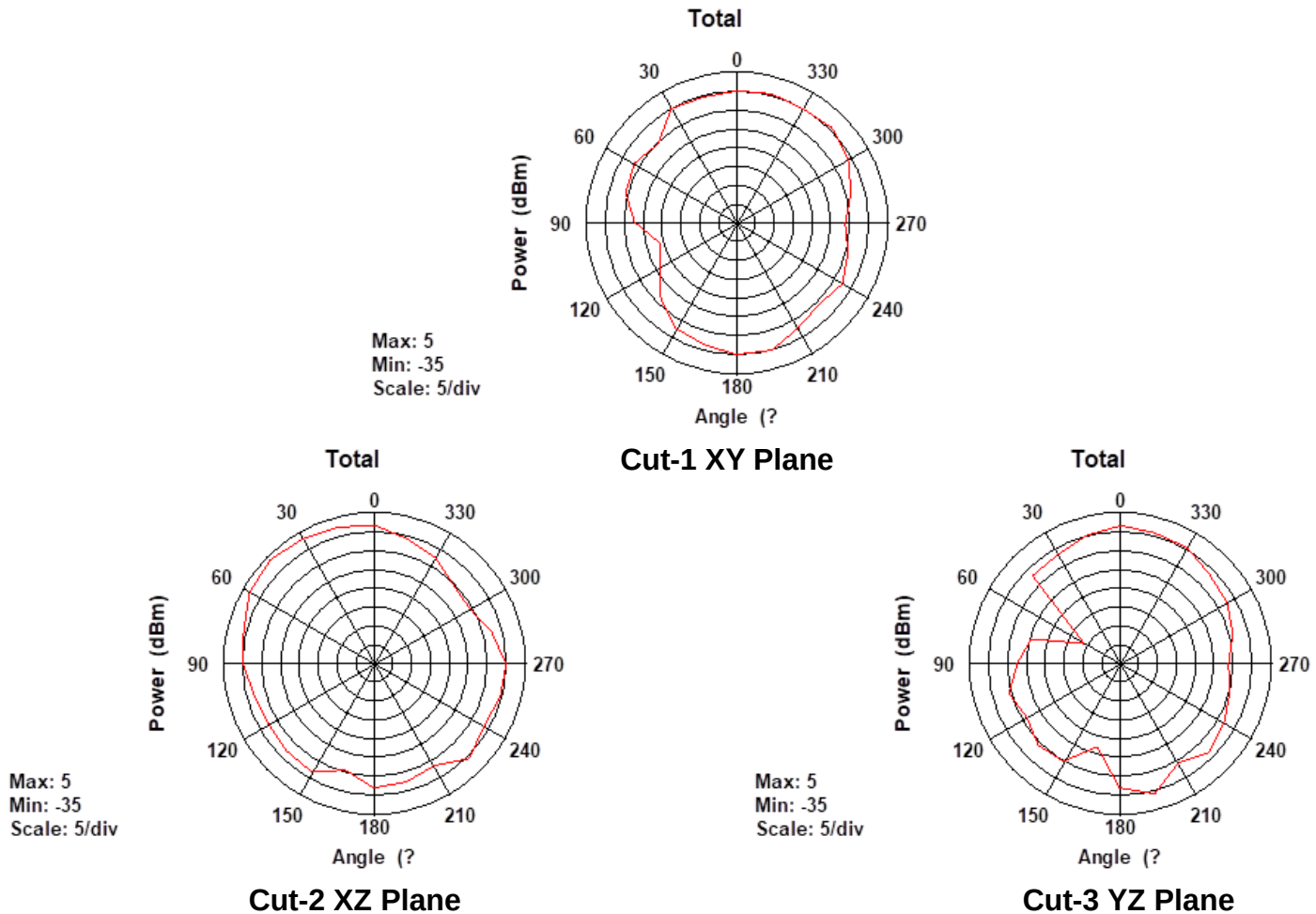
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

2D Radiation_5150MHz [WIFI MAIN]



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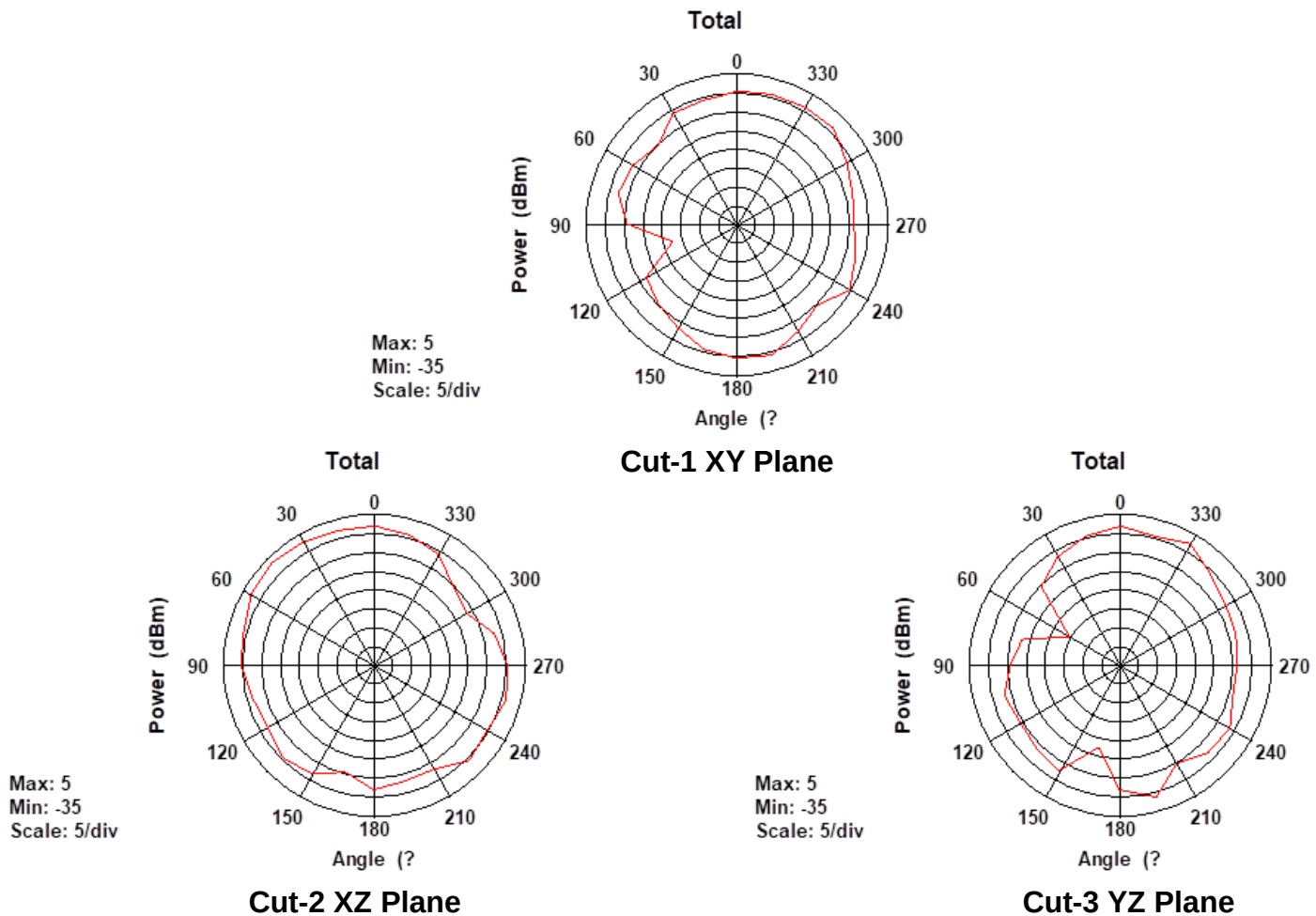
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

2D Radiation_5250MHz [WIFI MAIN]



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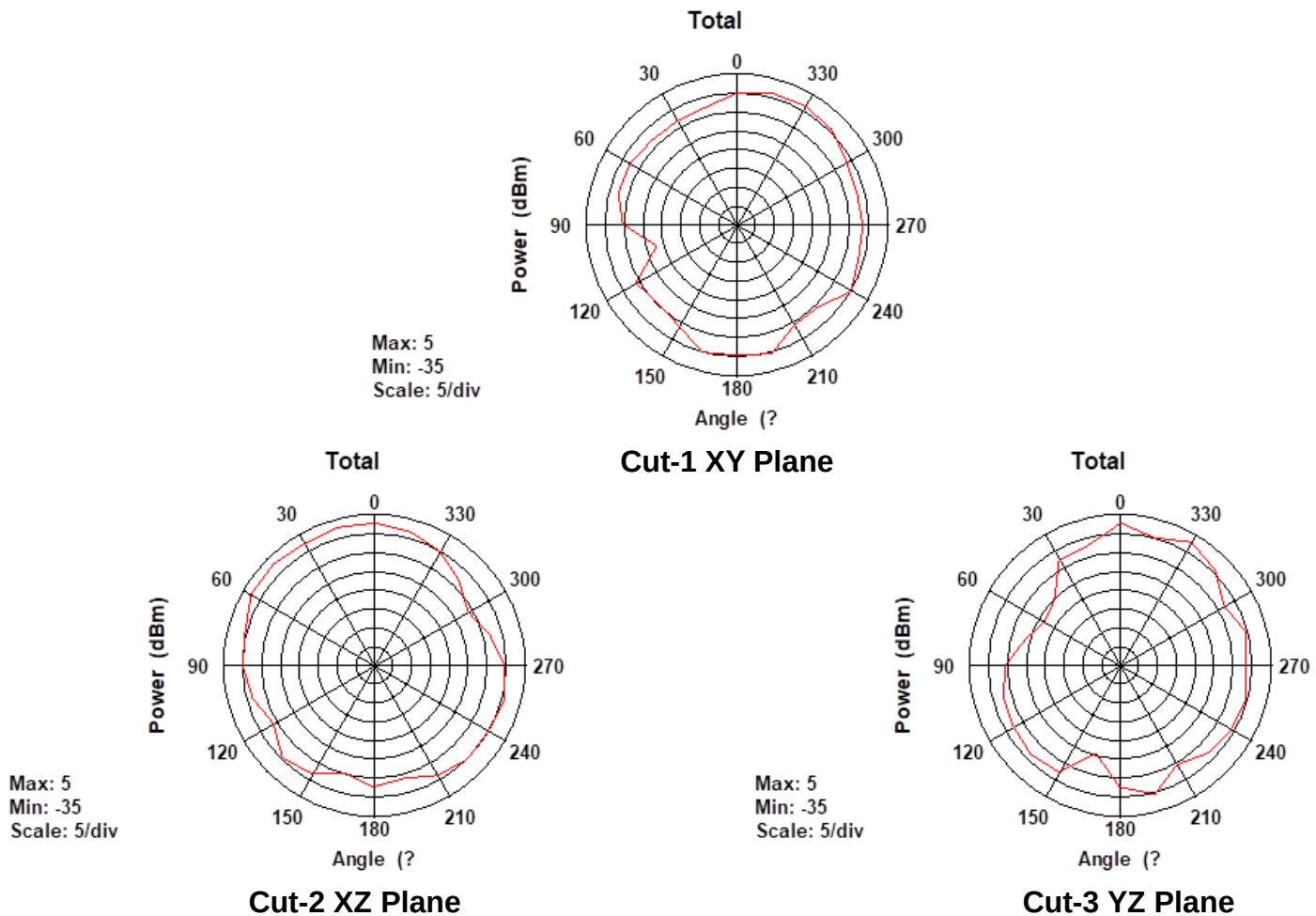
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

2D Radiation_5350MHz [WIFI MAIN]



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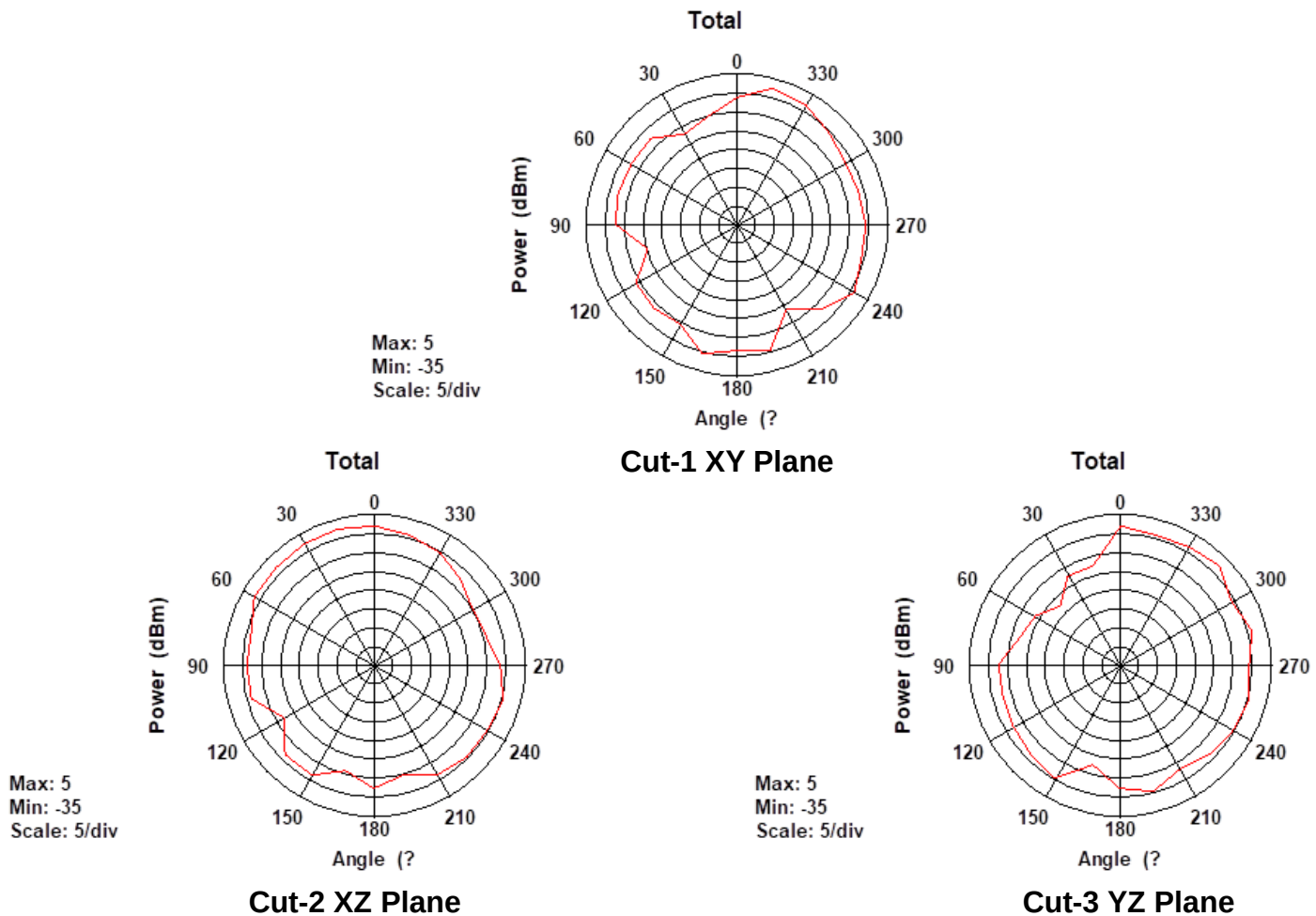
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

2D Radiation_5470MHz [WIFI MAIN]



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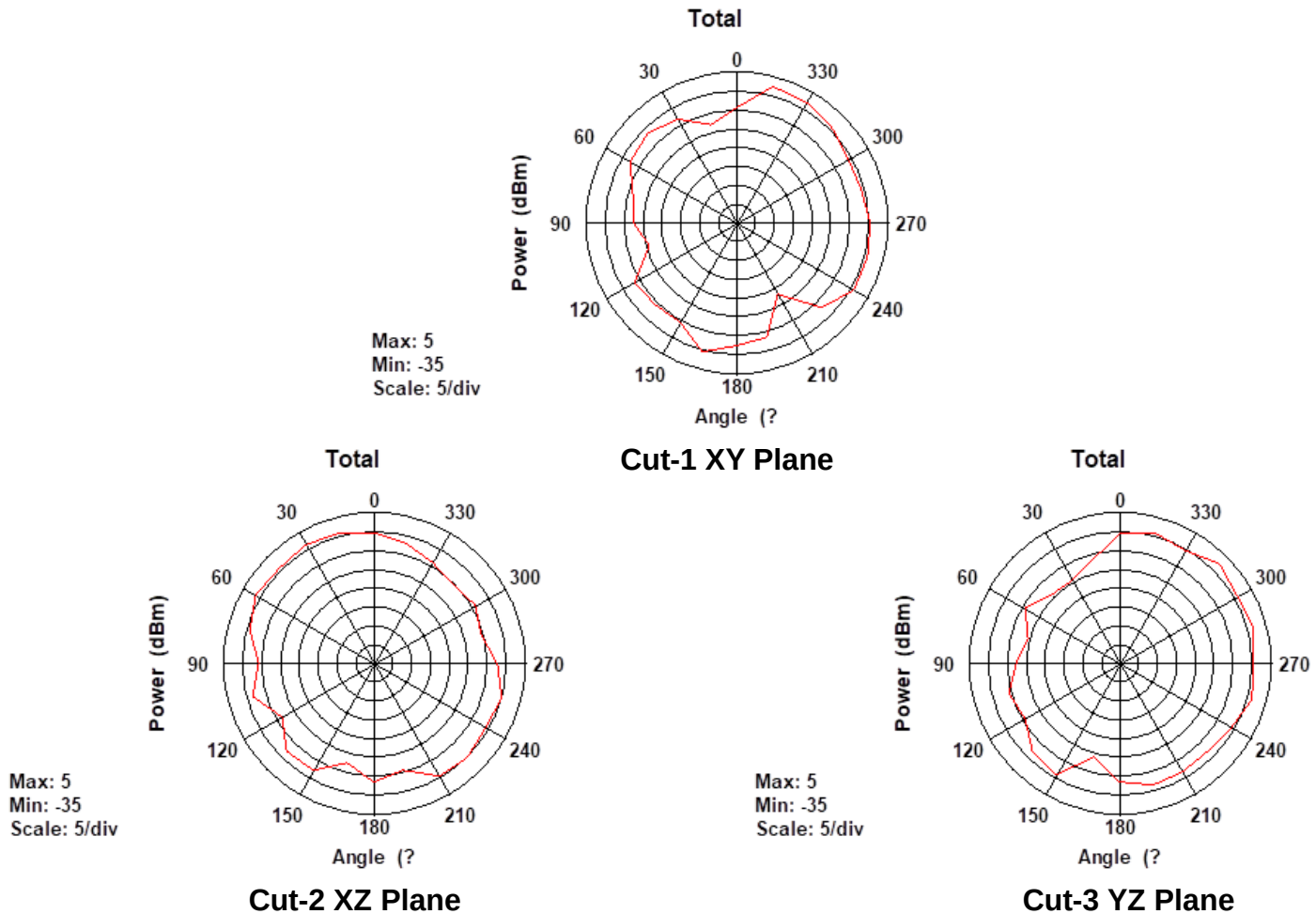
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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

2D Radiation_5600MHz [WIFI MAIN]



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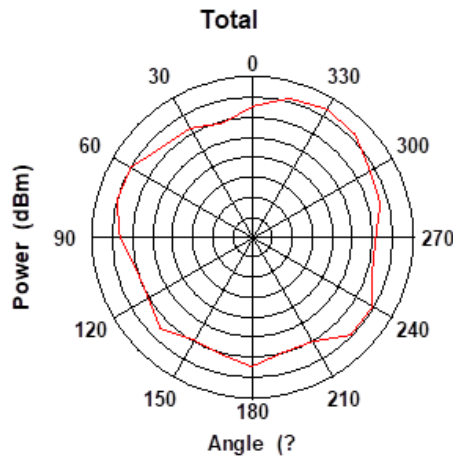
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Series: Swallowtail

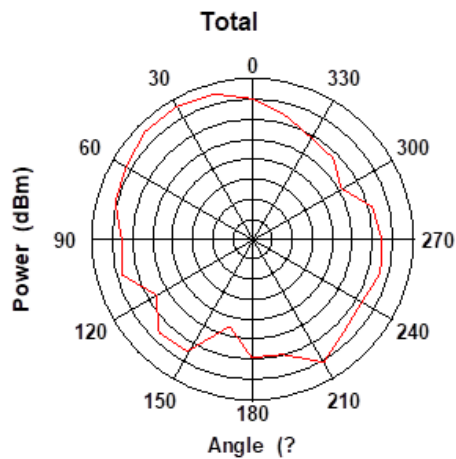
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Manufacturer P/N: TZ2977E

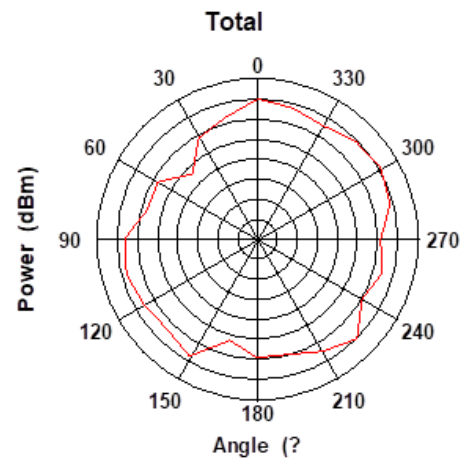
2D Radiation_5725MHz [WIFI MAIN]



Cut-1 XY Plane



Cut-2 XZ Plane



Cut-3 YZ Plane

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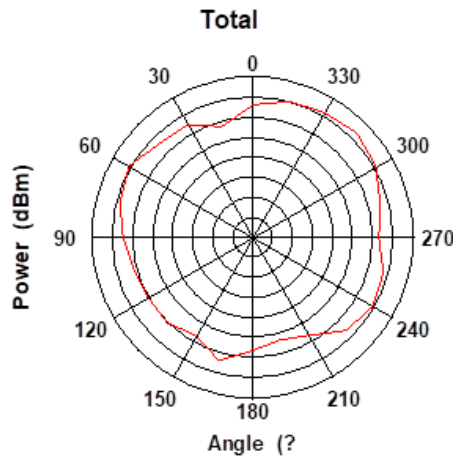
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Series: Swallowtail

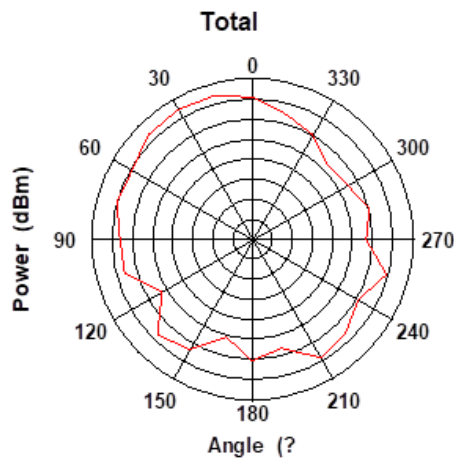
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Manufacturer P/N: TZ2977E

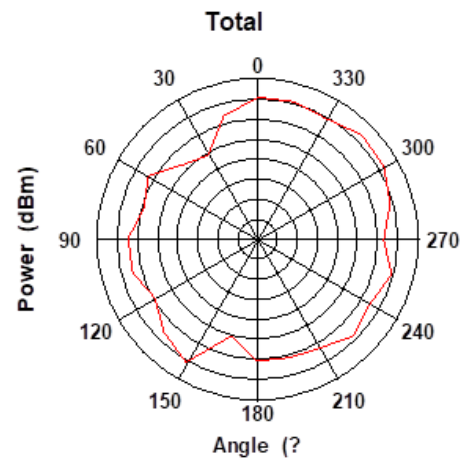
2D Radiation_5785MHz [WIFI MAIN]



Cut-1 XY Plane



Cut-2 XZ Plane



Cut-3 YZ Plane

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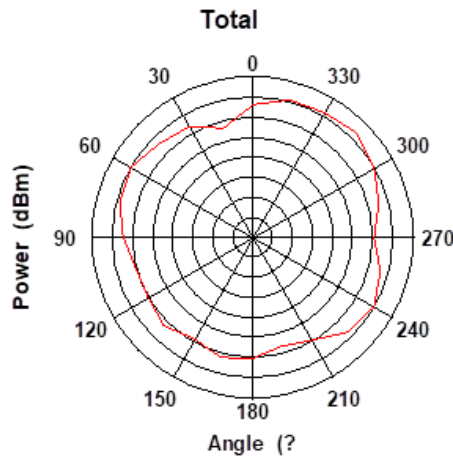
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Series: Swallowtail

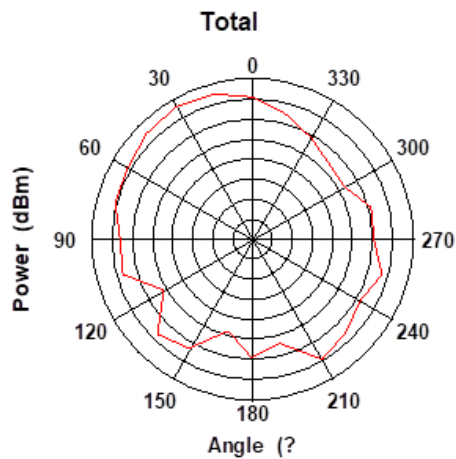
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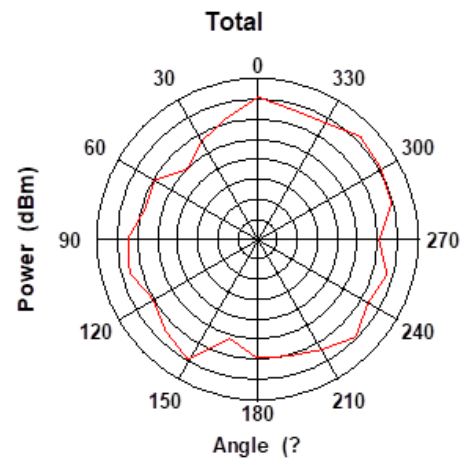
2D Radiation_5850MHz [WIFI MAIN]



Cut-1 XY Plane



Cut-2 XZ Plane



Cut-3 YZ Plane

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Series: Swallowtail

Customer P/N: 354-0000491

Manufacturer P/N: TZ2977E

Electrical test_Paasive data

Frequency	2400	2450	2500	5150	5250	5350	5470	5600	5725	5785	5850
Tot. Rad. Pwr. (dBm)	-2.55	-2.66	-2.95	-1.83	-1.58	-1.59	-1.75	-1.98	-2.06	-2.36	-2.57
Gain (dBi)	2.62	2.69	1.70	3.39	3.19	3.38	3.66	2.97	2.18	2.07	2.65
Directivity (dBi)	5.17	5.35	4.65	5.23	4.77	4.97	5.40	4.96	4.24	4.43	5.22
Efficiency (%)	55.56	54.24	50.75	65.59	69.44	69.35	66.91	63.32	62.23	58.13	55.31

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