

**Description: ON-VEHICLE LOW PROFILE ANTENNA**

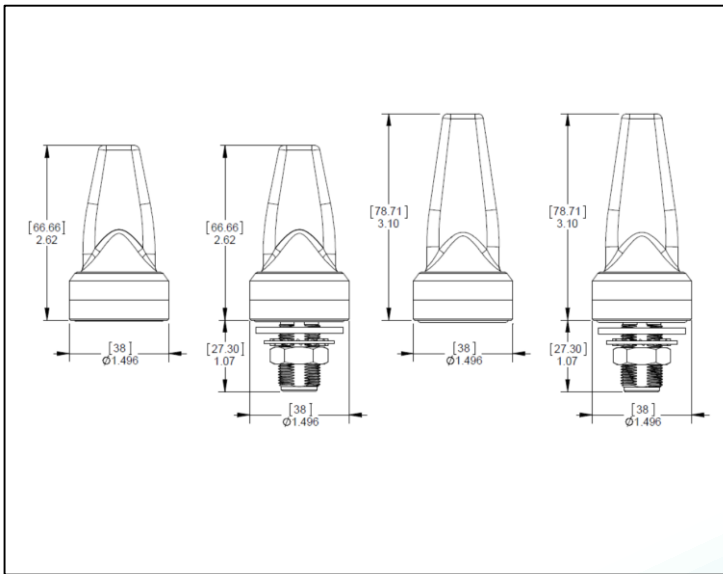
**Series: Shadow**

**PART NUMBER: Black: SLPTXXX / White: SLPTXXXW**



**Features:**

- SLPT in Black and White
- Short, slim profile without sacrificing RF or mechanical performance
- Direct and NMO mount models
- IP67 Weatherproof



All dimensions are in mm / inches

**Applications:**

- Models supporting :
  - Public Safety, LMR
  - Wi-Fi,
  - 3G/4G LTE,
  - ISM
  - DSRC
- Bus/Rail/Transit
- IoT – Vending, metering and other industrial applications
- Outdoor Vehicular

Issue: 1829

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Suzhou New District  
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Tel: 86 512 6807 9998

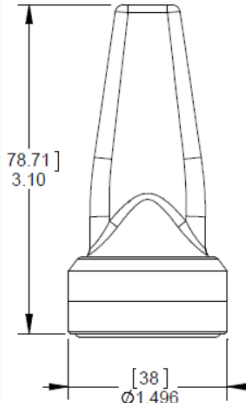
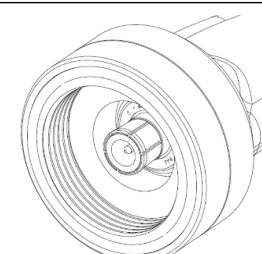
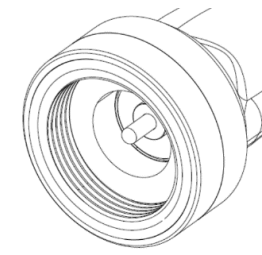
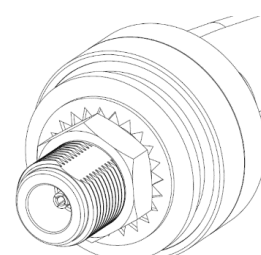
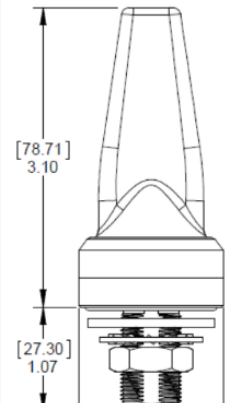
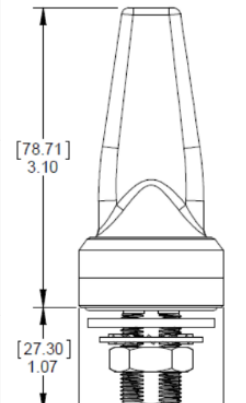
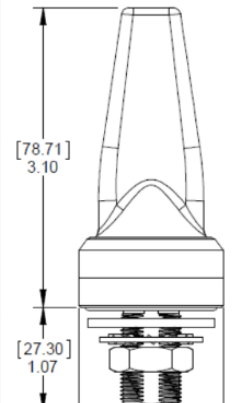


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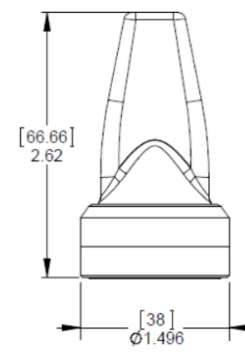
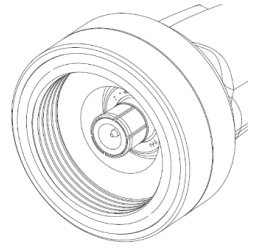
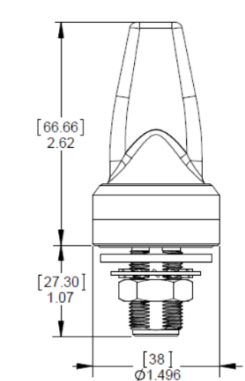
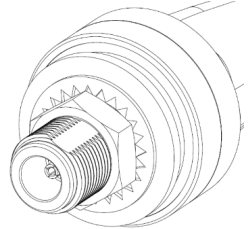
| Project            | Color | Frequency                  | Size   | Fixing System Connector  |   |
|--------------------|-------|----------------------------|--|--|---|
| SLPT698/2170NMOHFW | White | 698-960MHz<br>1710-2700MHz |   | <br>NMOHF<br>NMO + HF Connector |   |
| SLPT698/2170NMOHF  | Black |                            |  |  |   |
| SLPT698/960NMOW    | White | 698-960MHz                 |  | <br>NMO + Pogo Pin Connector   |   |
| SLPT698/960NMO     | Black |                            |  |  |   |
| SLPT806NMOW        | White | 806-960MHz                 |  |  | <br>Direct Mount<br>N Female Connector<br>(Screw 5/8-24 UNEF 2A) |
| SLPT806NMO         | Black |                            |  |  |   |
| SLPT698/869DMNW    | White | 698-869MHz                 |  |  |   |
| SLPT698/869DMN     | Black |                            |  |  |   |
| SLPT806DMNW        | White | 806-960MHz                 |  |                                |   |
| SLPT806DMN         | Black |                            |  |  |   |
| SLPT698/2170DMNW   | White | 698-960MHz<br>1710-2700MHz |  |  |   |
| SLPT698/2170DMN    | Black |                            |  |  |   |

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This document covers all product variants of the following product family:

| Project            | Color | Frequency                    | Size  | Fixing System Connector  |
|--------------------|-------|------------------------------|---|--|
| SLPT2400NMOHFW     | White | 2400-2500MHz                 |   | <br>NMOHF<br>NMO + HF Connector                                   |
| SLPT2400NMOHF      | Black |                              |   |  |
| SLPT4900NMOHFW     | White | 4900-6000MHz                 |   |  |
| SLPT4900NMOHF      | Black |                              |   |  |
| SLPT245NMOHFW      | White | 2400-2500MHz<br>4900-6000MHz |   |  |
| SLPT2400/5900NMOHF | Black |                              |   |  |
| SLPT2400DMNW       | White | 2400-2500MHz                 |  | <br>Direct Mount<br>N Female Connector<br>(Screw 5/8-24 UNEF 2A) |
| SLPT2400DMN        | Black |                              |   |  |
| SLPT4900DMNW       | White | 4900-6000MHz                 |   |  |
| SLPT4900DMN        | Black |                              |   |  |
| SLPT2400/5900DMNW  | White | 2400-2500MHz<br>4900-6000MHz |   |  |
| SLPT2400/5900DMN   | Black |                              |   |  |

P.S.: For DMN fixing system, it requires a 5/8" (16mm) hole in the mounting surface.

Remove any burrs, particularly on the Roof under side of the hole. Remove paint in a narrow ring around the hole. Metal-to-metal contact between the mounting surface and mount is essential for best performance.

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**ELECTRICAL SPECIFICATIONS**

| Project            | Frequency                  | VSWR  | Peak Gain                                       | Efficiency | Power Handling  |
|--------------------|----------------------------|---|---|------------|---|
| SLPT698/2170NMOHFW | 698-960MHz<br>1710-2700MHz | 3.3:1(0.698-0.96GHz)<br>2:1(1.71-2.5GHz)<br>2.2:1(2.5-2.7GHz) | 3.52dBi(0.698-0.96GHz)<br>4.95dBi(1.71-2.69GHz) | 72%<br>71% | 40W(100%<br>duty cycle)<br><br>50W(50%<br>duty cycle) |
| SLPT698/2170NMOHF  |                            |   |   |            |   |
| SLPT698/960NMOW    | 698-960MHz                 | 2:1   | 3.29dBi   | 68%        | 35W(100%<br>duty cycle)<br>40W(50%<br>duty cycle)     |
| SLPT698/960NMO     |                            |   |   |            |   |
| SLPT806NMOW        | 806-960MHz                 | 2:1   | 3.18dBi   | 67%        | 35W(100%<br>duty cycle)<br>40W(50%<br>duty cycle)     |
| SLPT806NMO         |                            |   |   |            |   |
| SLPT698/869DMNW    | 698-869MHz                 | 2:1   | 3.26dBi   | 72%        | 30W(100%<br>duty cycle)<br>40W(50%<br>duty cycle)     |
| SLPT698/869DMN     |                            |   |   |            |   |
| SLPT806DMNW        | 806-960MHz                 | 2:1   | 3.05dBi   | 70%        | 40W(100%<br>duty cycle)<br>45W(50%<br>duty cycle)     |
| SLPT806DMN         |                            |   |   |            |   |
| SLPT698/2170DMNW   | 698-960MHz<br>1710-2700MHz | 3.3:1(0.698-0.96GHz)<br>2:1(1.71-2.5GHz)<br>2.2:1(2.5-2.7GHz) | 3.51dBi(0.698-0.96GHz)<br>4.81dBi(1.71-2.69GHz) | 76%<br>67% | 40W(100%<br>duty cycle)<br><br>50W(50%<br>duty cycle) |
| SLPT698/2170DMN    |                            |   |   |            |   |

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| Project            | Frequency                    | VSWR                               | Peak Gain          | Efficiency | Power Handling       |
|--------------------|------------------------------|------------------------------------|--------------------|------------|----------------------|
| SLPT2400NMOHFW     | 2400-2500MHz                 | 2:1                                | 5.06dBi            | 79%        | 35W(100% duty cycle) |
| SLPT2400NMOHF      |                              |                                    |                    |            | 45W(50% duty cycle)  |
| SLPT4900NMOHFW     | 4900-6000MHz                 | 2.2:1                              | 5.09dBi            | 71%        | 35W(100% duty cycle) |
| SLPT4900NMOHF      |                              |                                    |                    |            | 45W(50% duty cycle)  |
| SLPT245NMOHFW      | 2400-2500MHz<br>4900-6000MHz | 2:1(2.4-2.5GHz)<br>2.2:1(4.9-6GHz) | 5.06dBi<br>5.09dBi | 79%<br>71% | 35W(100% duty cycle) |
| SLPT2400/5900NMOHF |                              |                                    |                    |            | 45W(50% duty cycle)  |
| SLPT2400DMNW       | 2400-2500MHz                 | 2:1                                | 4.78dBi            | 75%        | 35W(100% duty cycle) |
| SLPT2400DMN        |                              |                                    |                    |            | 45W(50% duty cycle)  |
| SLPT4900DMNW       | 4900-6000MHz                 | 2.2:1                              | 5.14dBi            | 73%        | 35W(100% duty cycle) |
| SLPT4900DMN        |                              |                                    |                    |            | 45W(50% duty cycle)  |
| SLPT2400/5900DMNW  | 2400-2500MHz<br>4900-6000MHz | 2:1(2.4-2.5GHz)<br>2.2:1(4.9-6GHz) | 4.78dBi<br>5.14dBi | 79%<br>73% | 35W(100% duty cycle) |
| SLPT2400/5900DMN   |                              |                                    |                    |            | 45W(50% duty cycle)  |

Nominal Impedance

50Ω

Radiation Pattern

omni

Polarization:

Vertical

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|                    |               |
|--------------------|---------------|
| Plastic radome     | PC            |
| Color              | White / Black |
| Ingress Protection | IP67          |

**ENVIRONMENTAL SPECIFICATIONS**

|                       |              |
|-----------------------|--------------|
| Operating temperature | -40 ~ +85° C |
|-----------------------|--------------|

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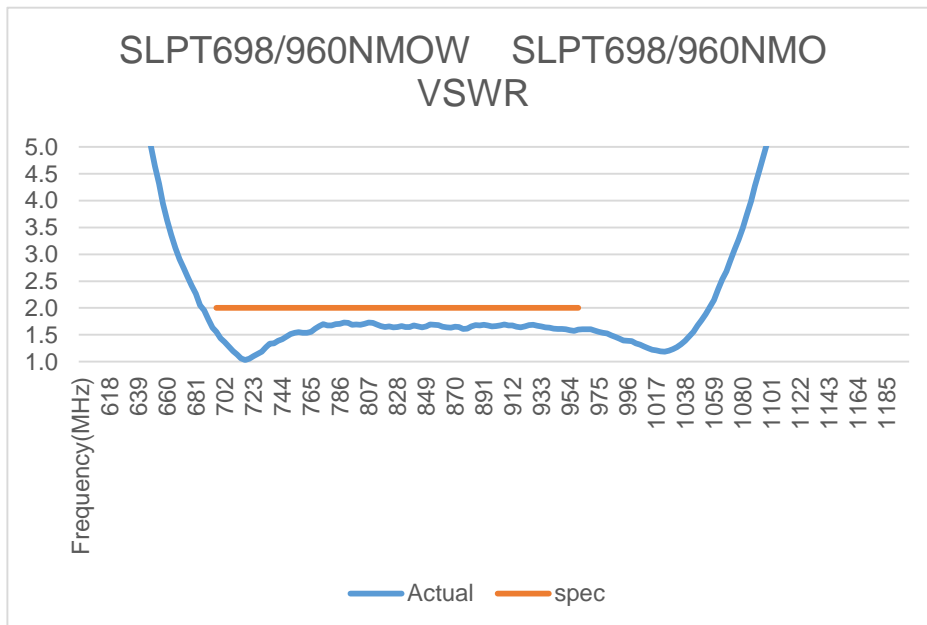
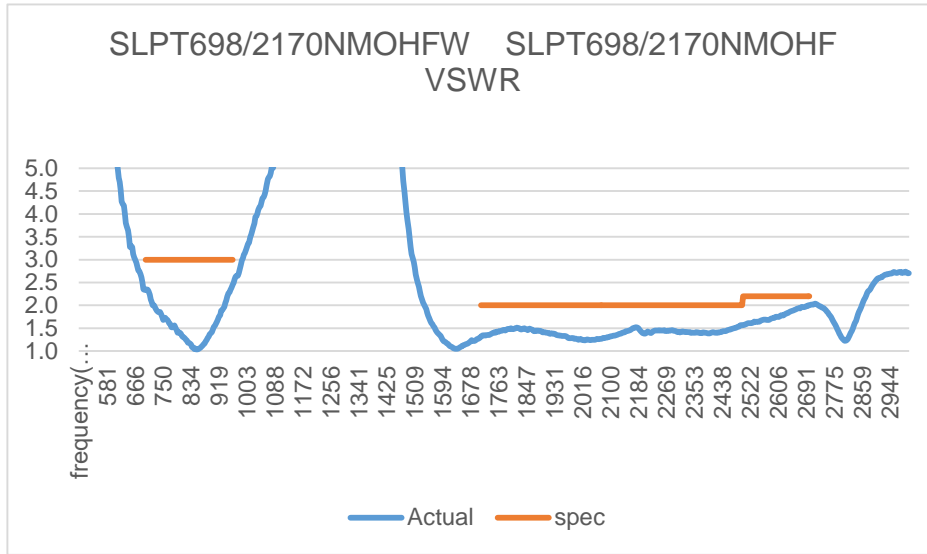
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CHARTS

VSWR



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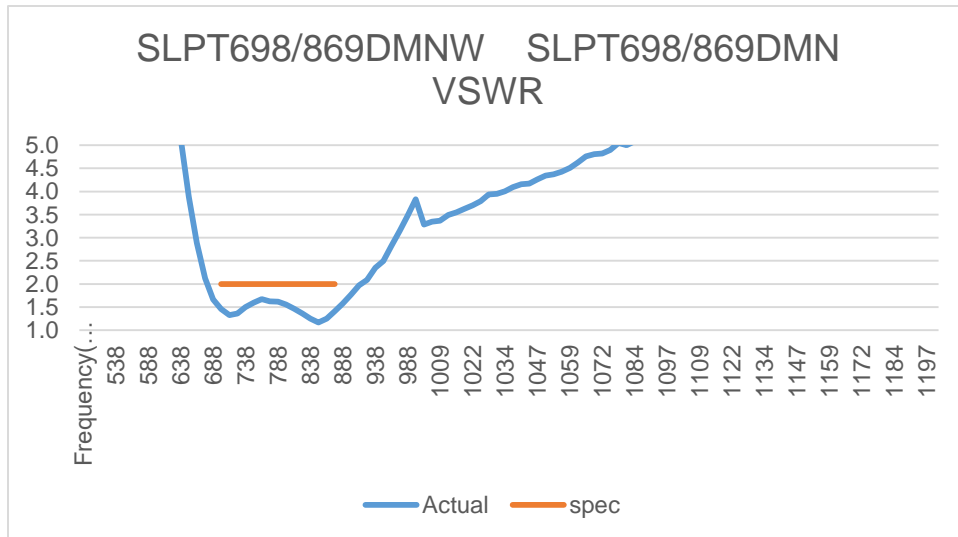
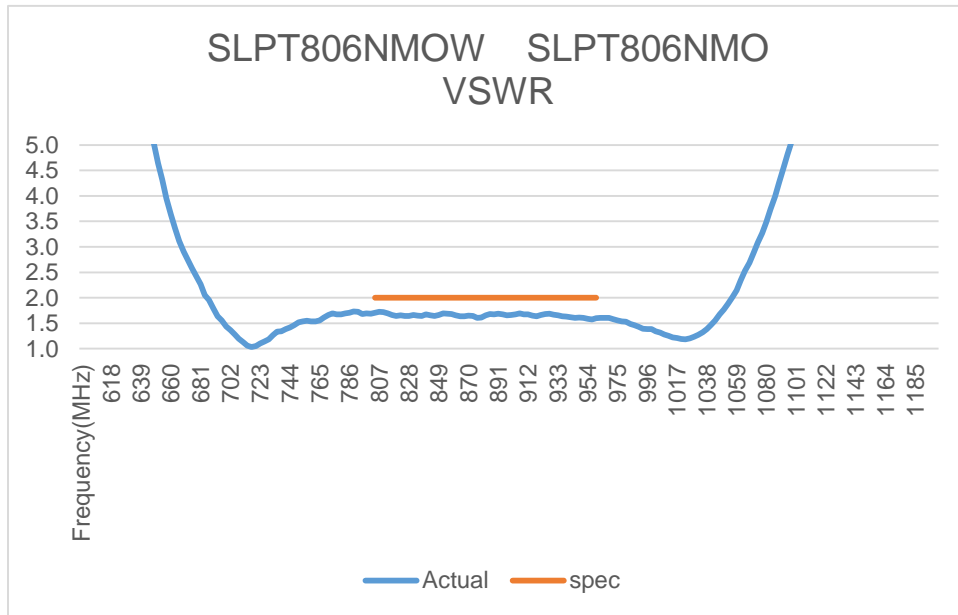
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CHARTS

VSWR



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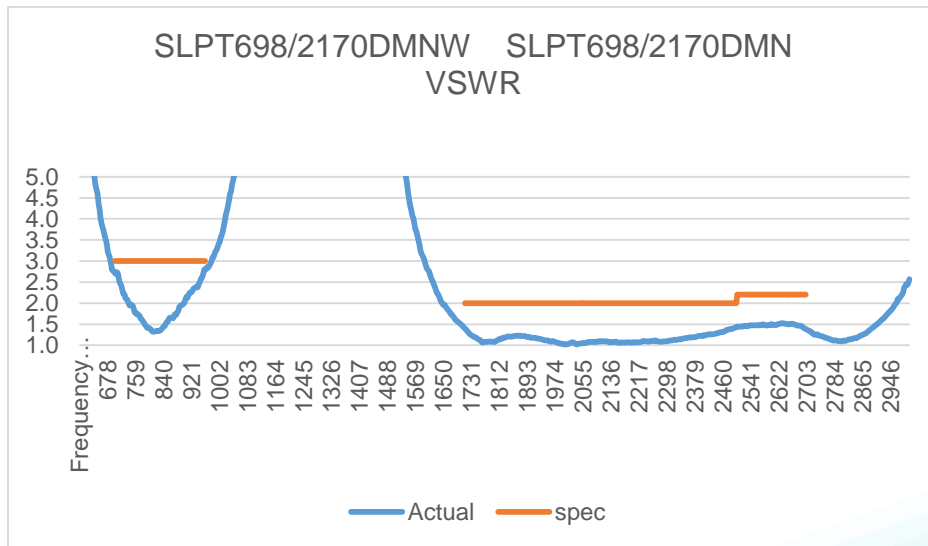
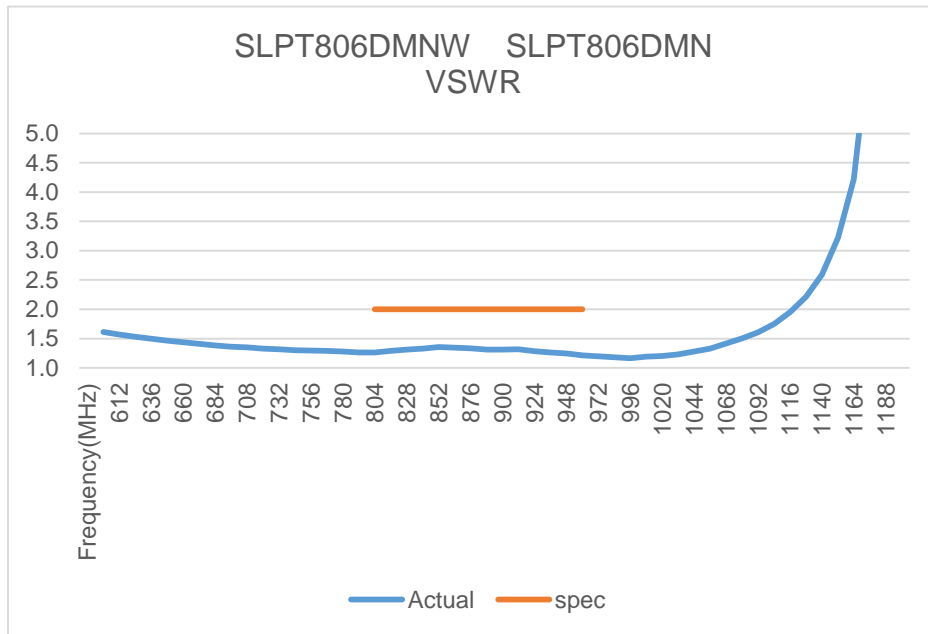
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CHARTS

VSWR



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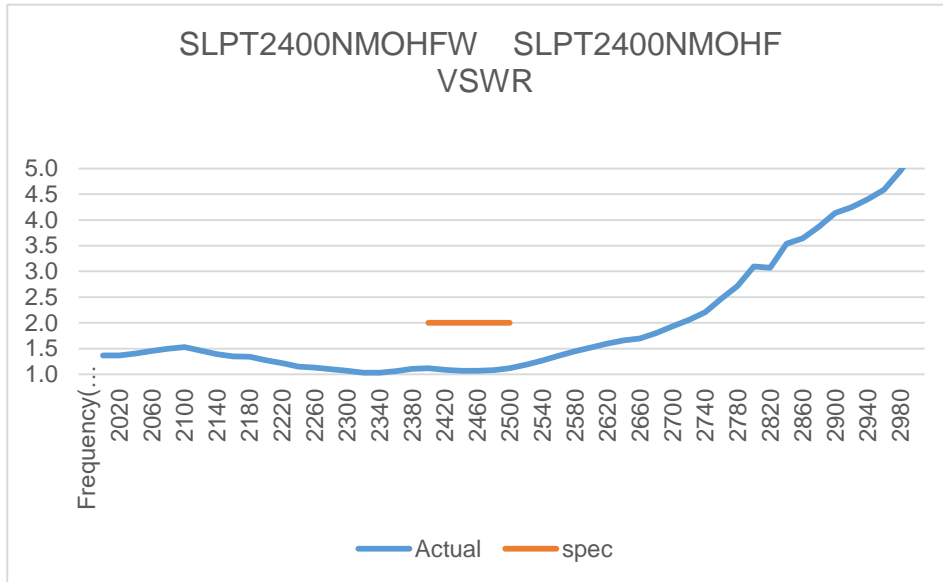
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CHARTS

VSWR



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VSWR



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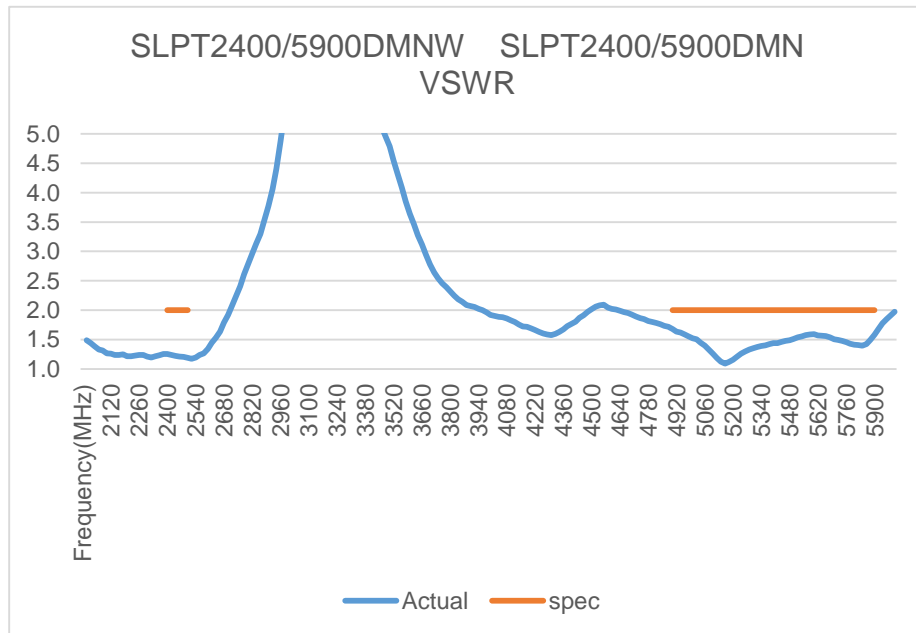
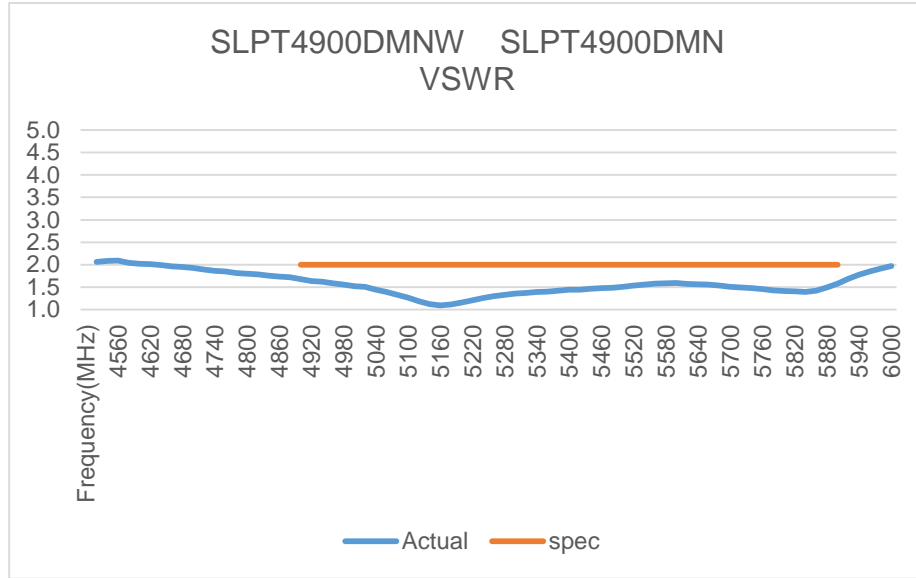
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VSWR



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CHARTS

Efficiency(%)



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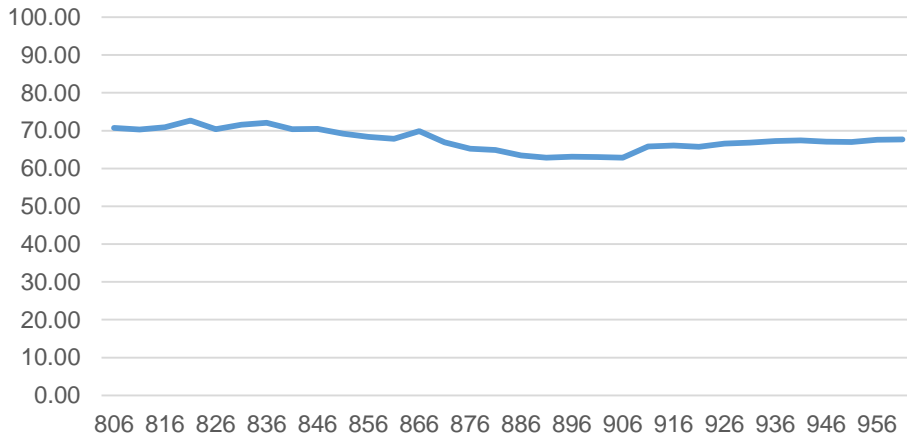
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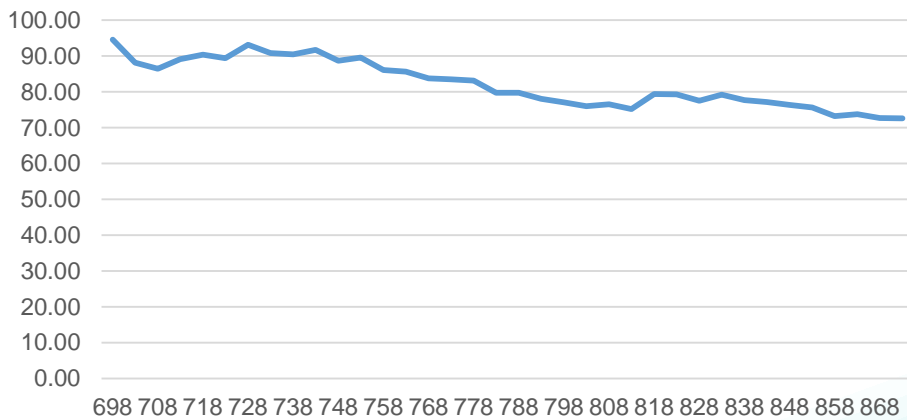
CHARTS

Efficiency(%)

SLPT806NMOW SLPT806NMO  
Efficiency (%)



SLPT698/869DMNW SLPT698/869DMN  
Efficiency (%)



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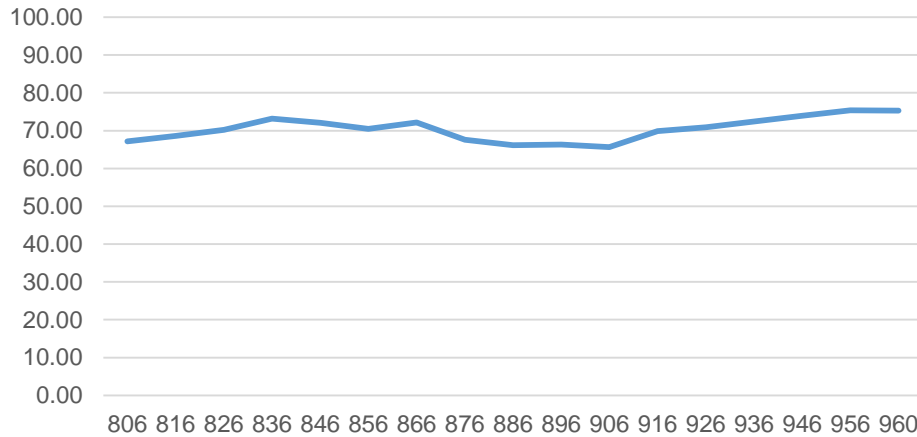
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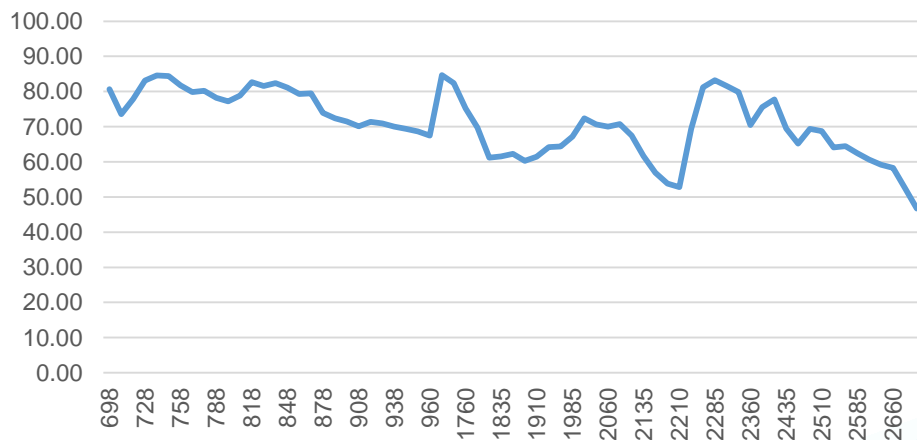
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Efficiency(%)

SLPT806DMNW SLPT806DMN  
Efficiency (%)



SLPT698/2170DMNW SLPT698/2170DMN  
Efficiency (%)



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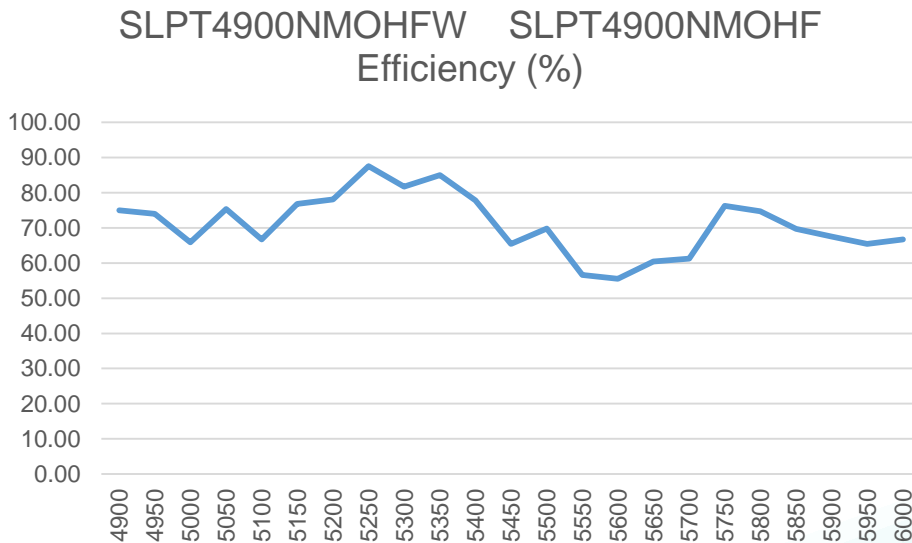
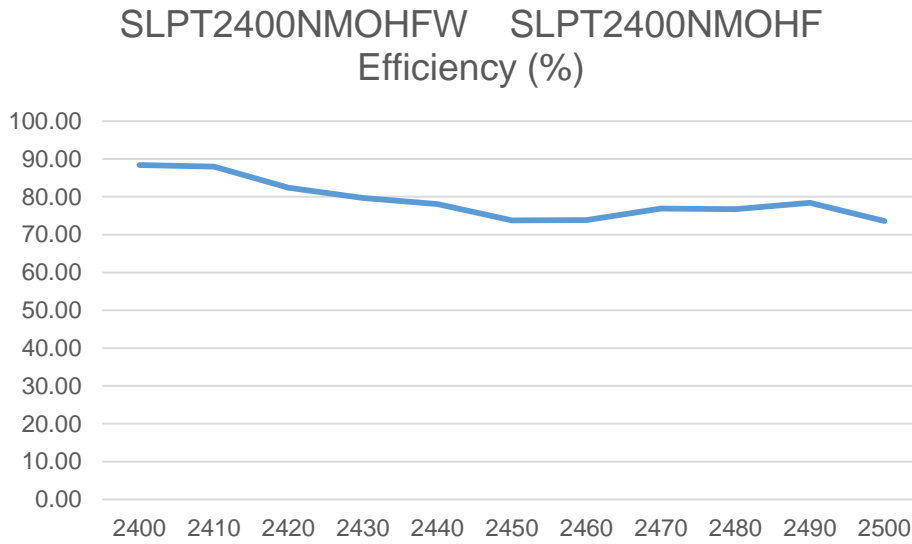
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Efficiency(%)



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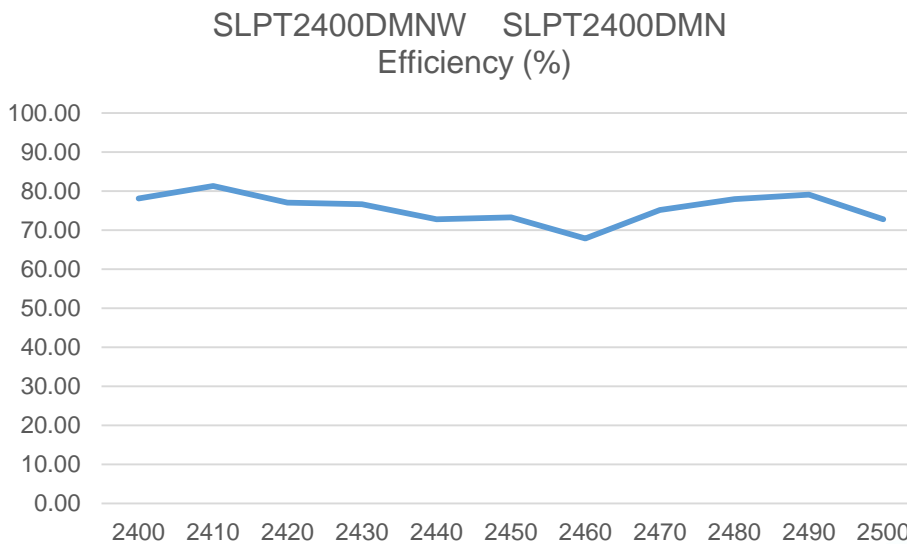
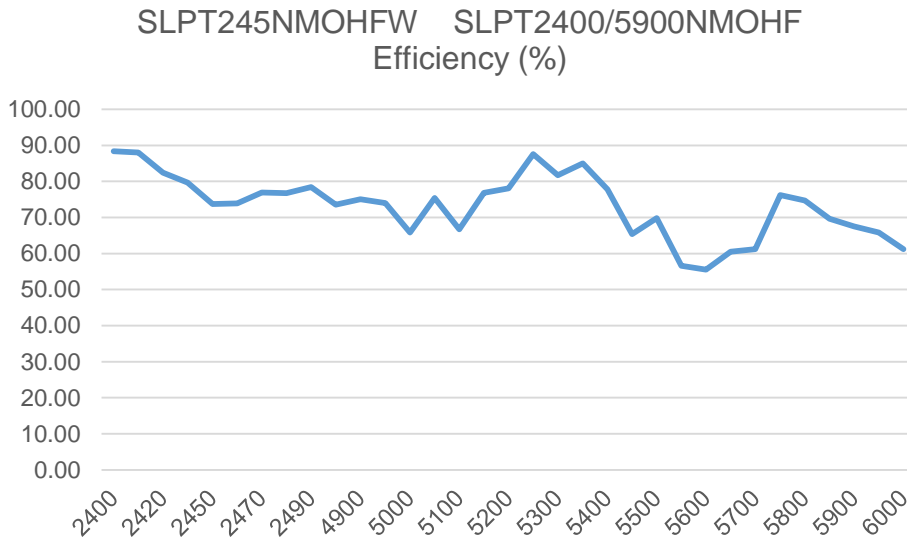
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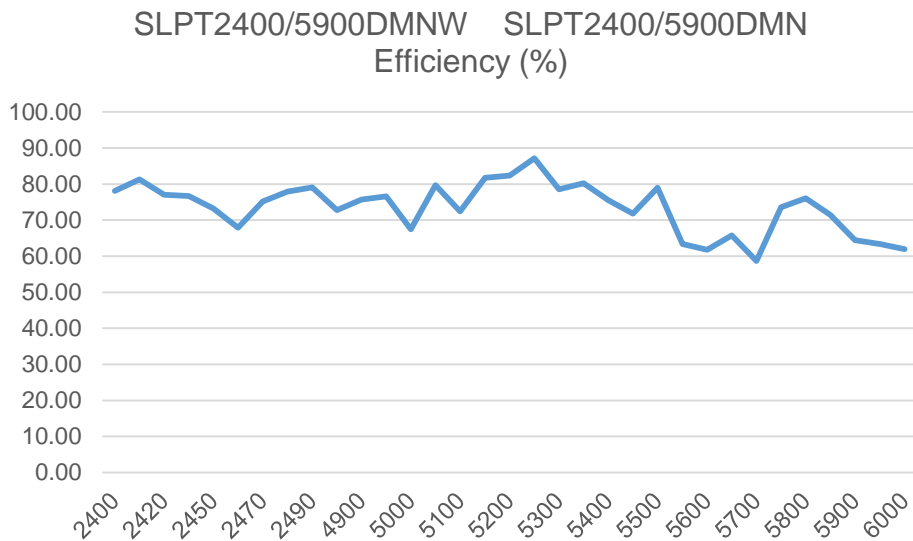
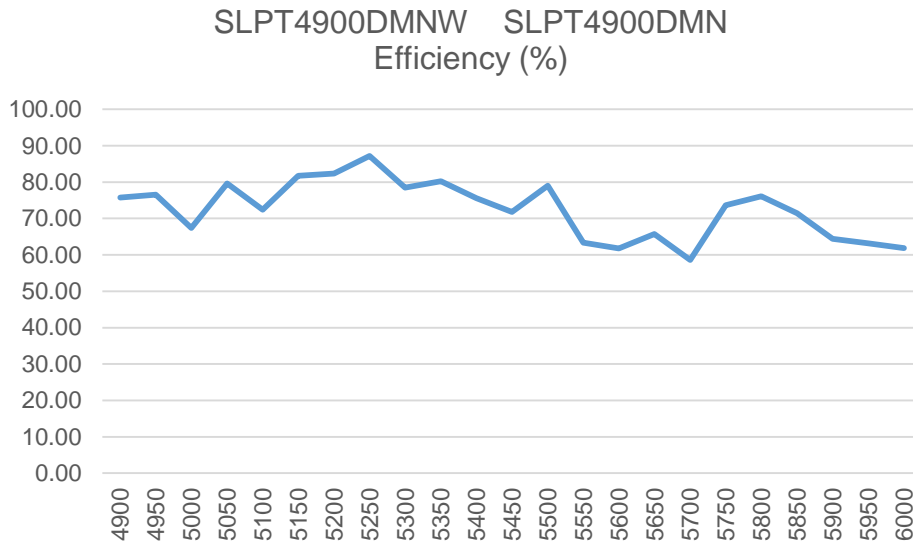
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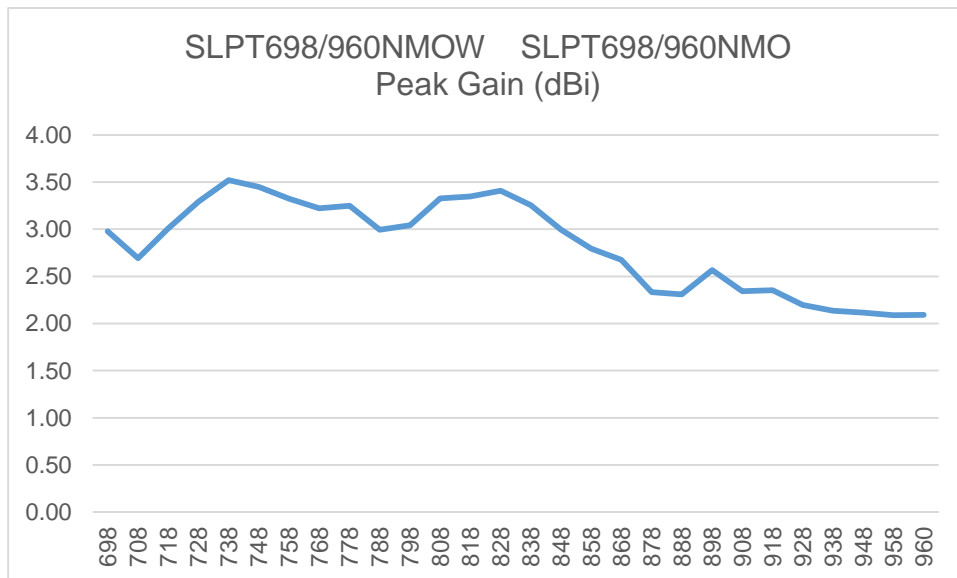
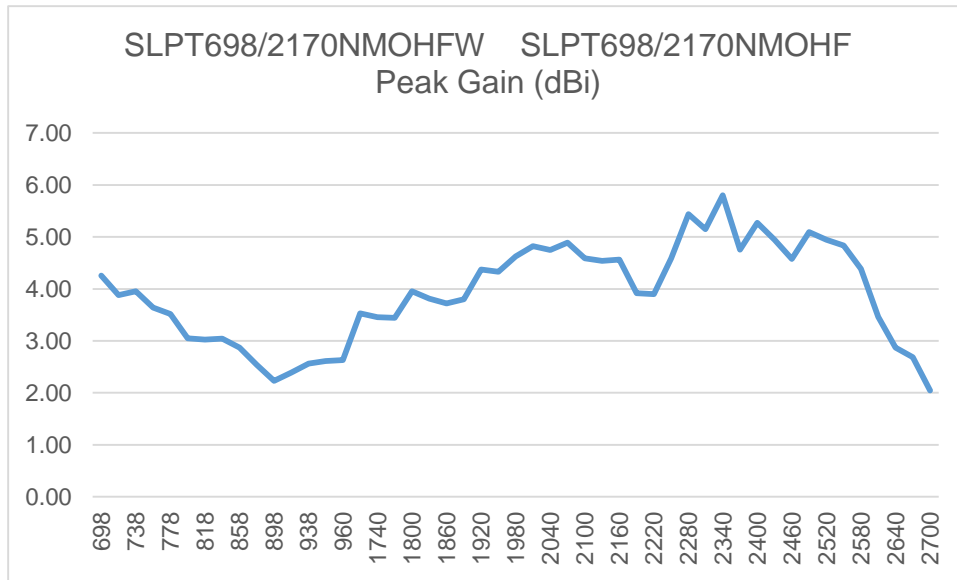
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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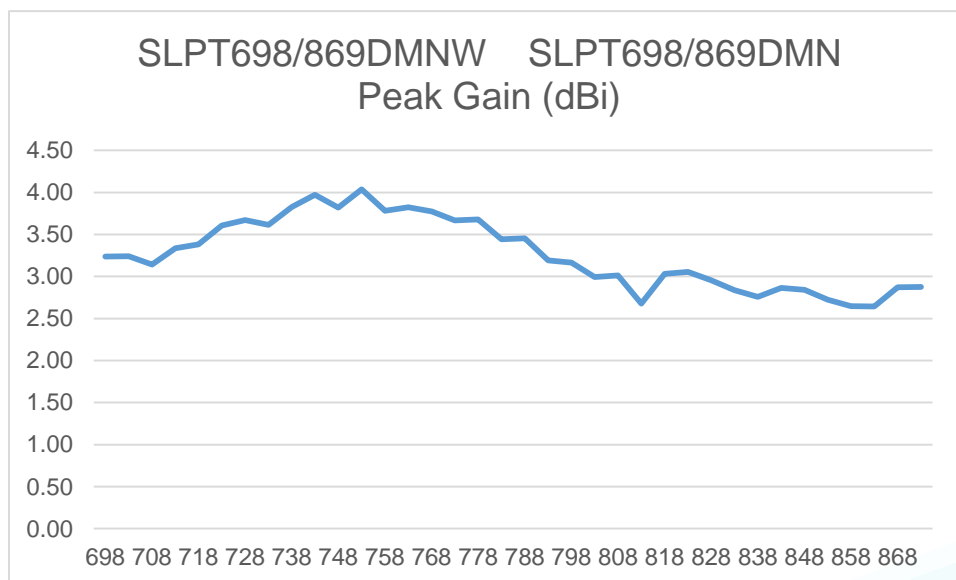
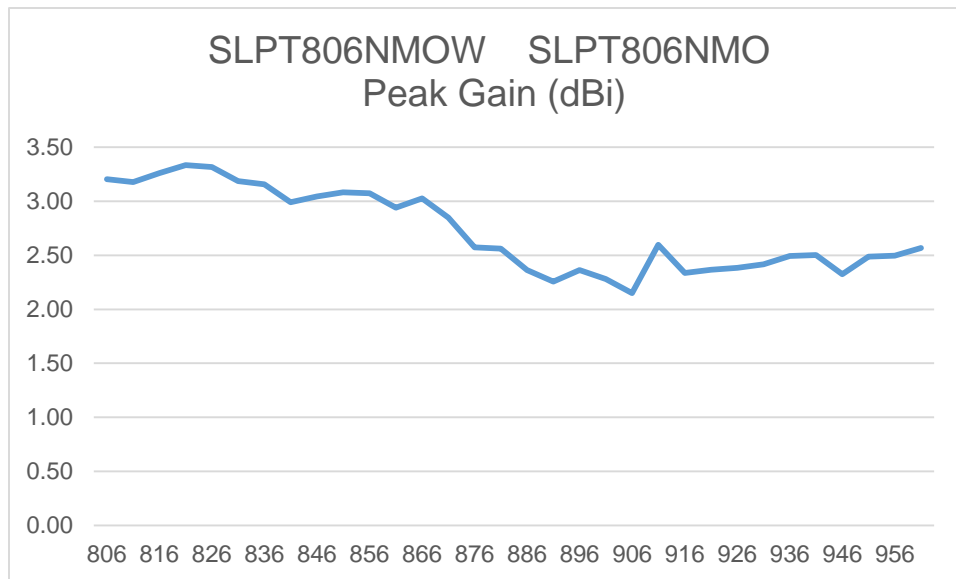
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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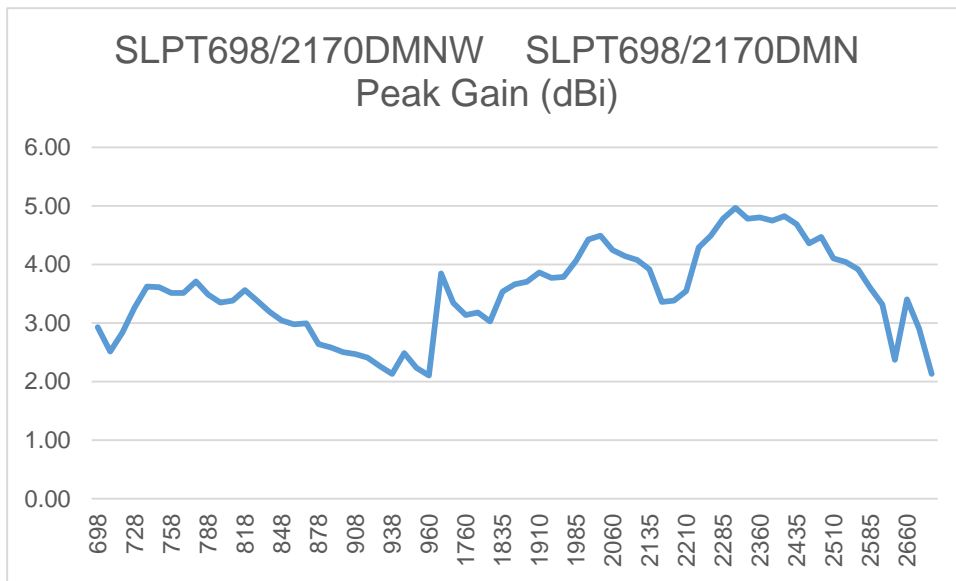
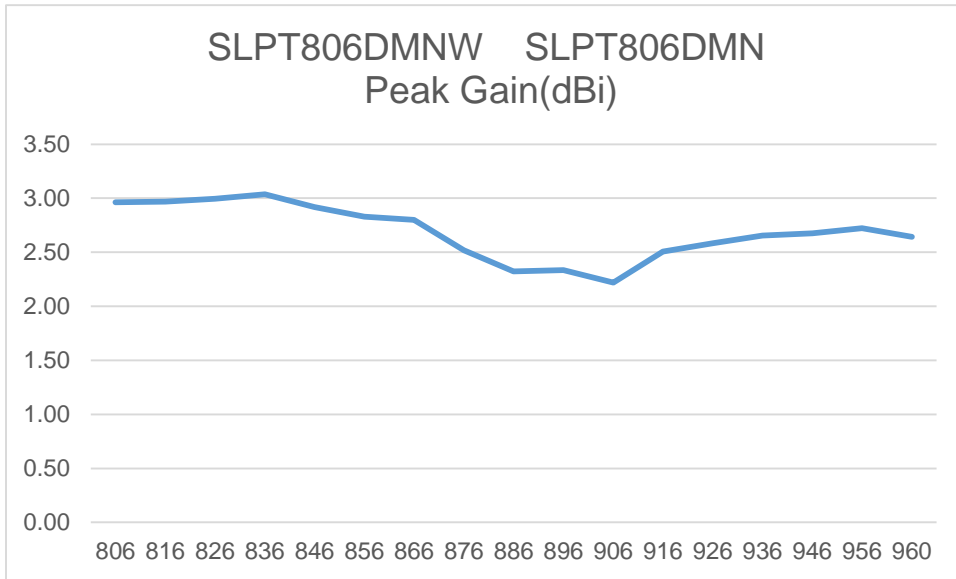
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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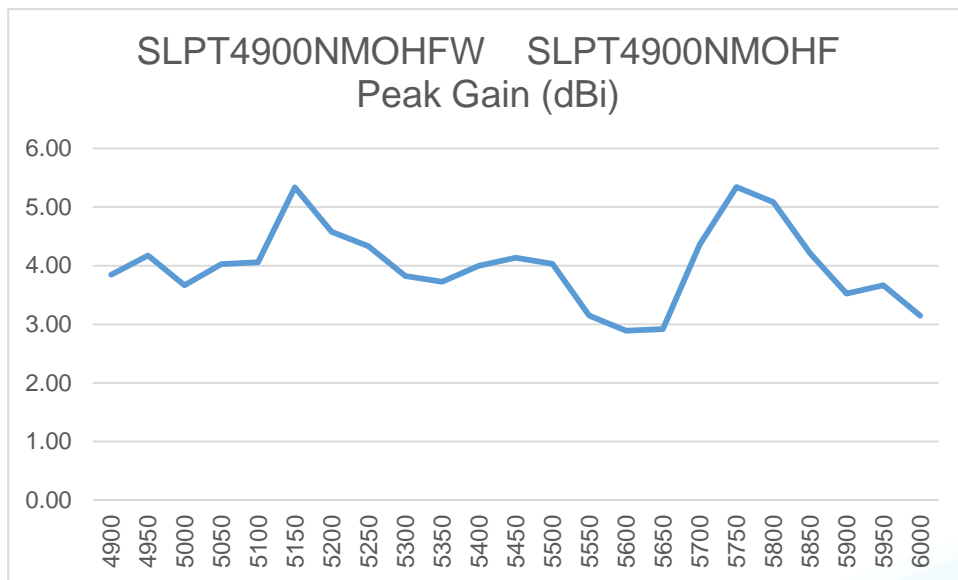
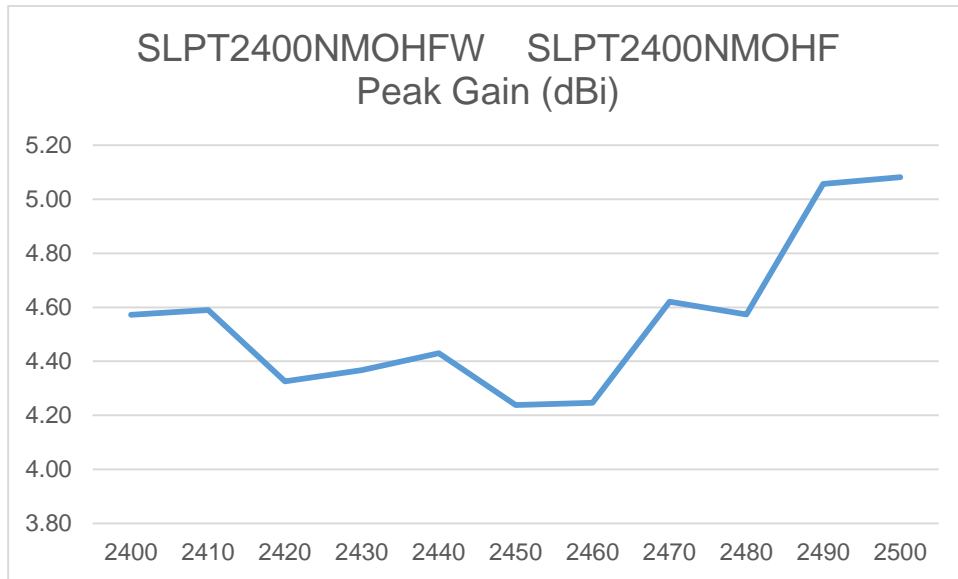
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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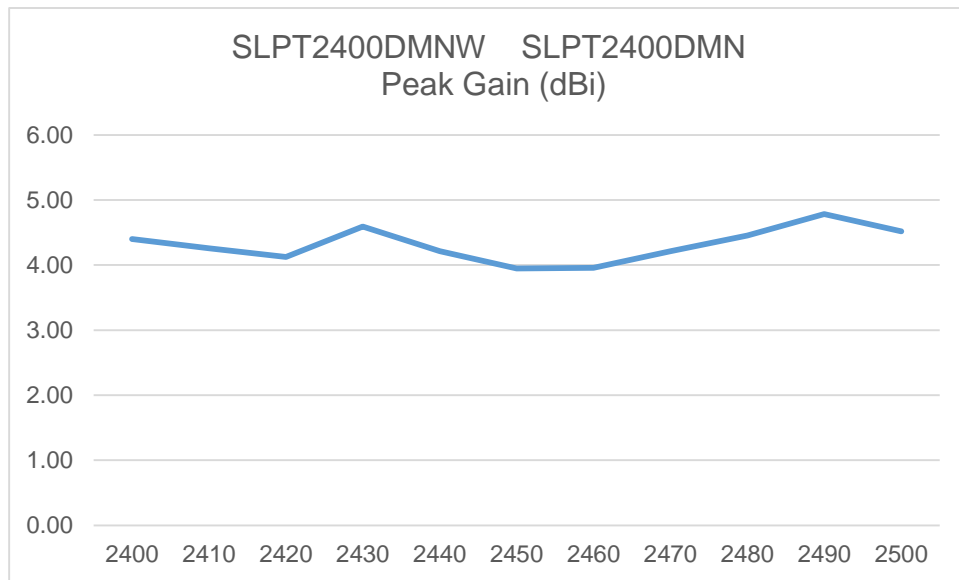
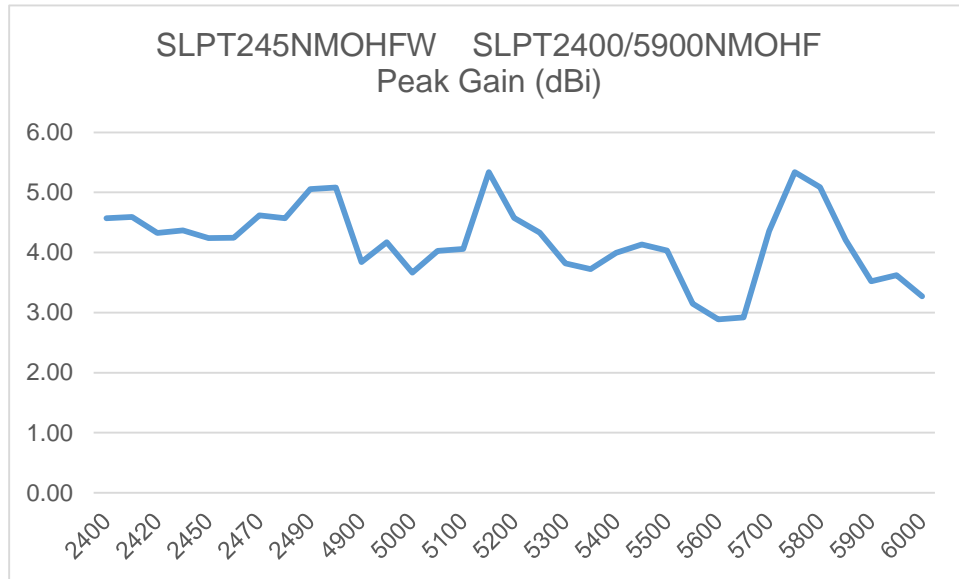
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

**CHARTS**

Peak Gain (dBi)



Issue: 1829

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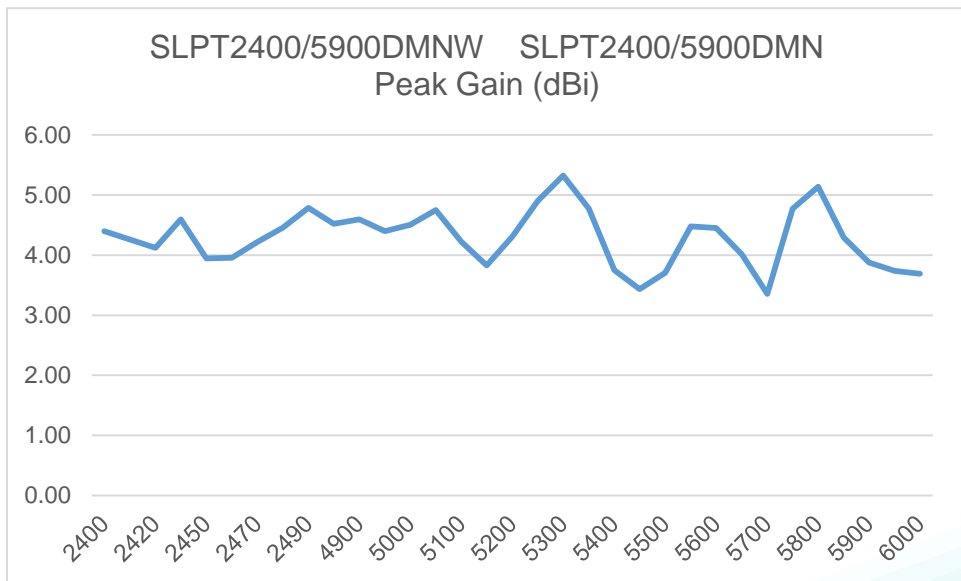
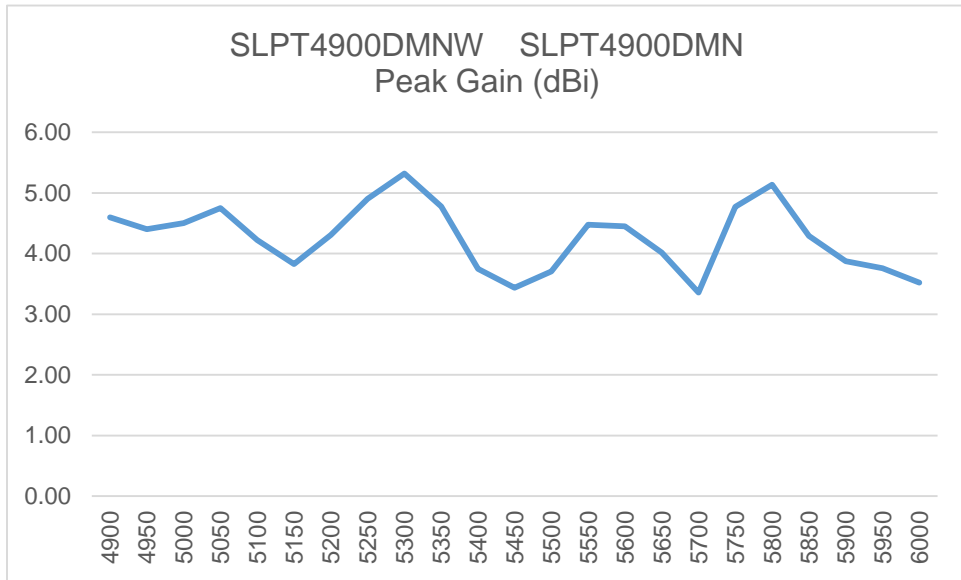
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

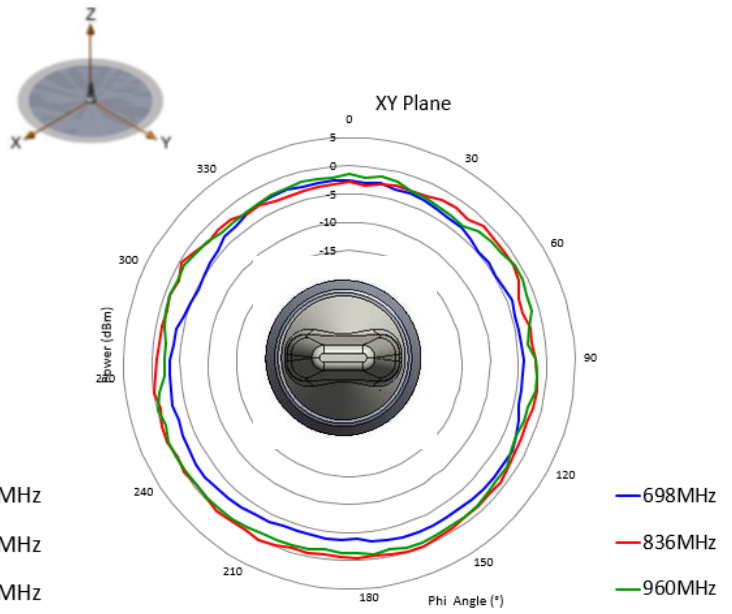
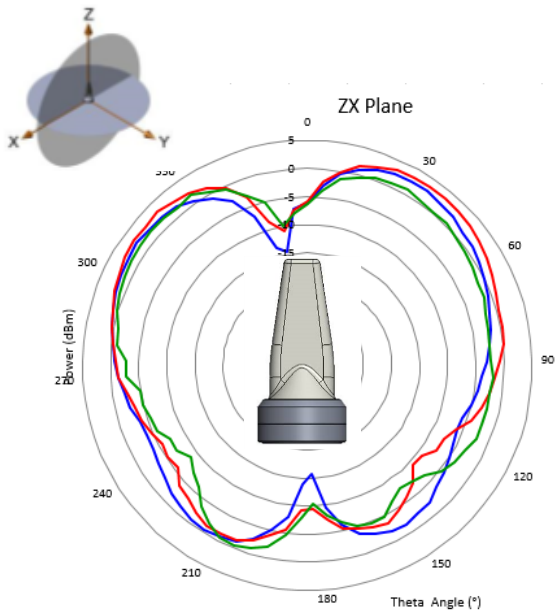
**CHARTS**

Free Space Radiation Pattern

SLPT698/2170NMOHFW    SLPT698/2170NMOHF

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

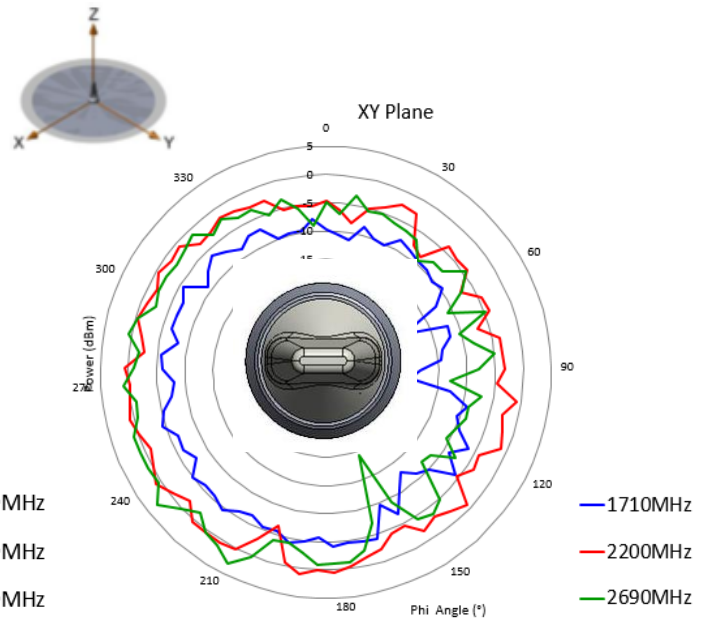
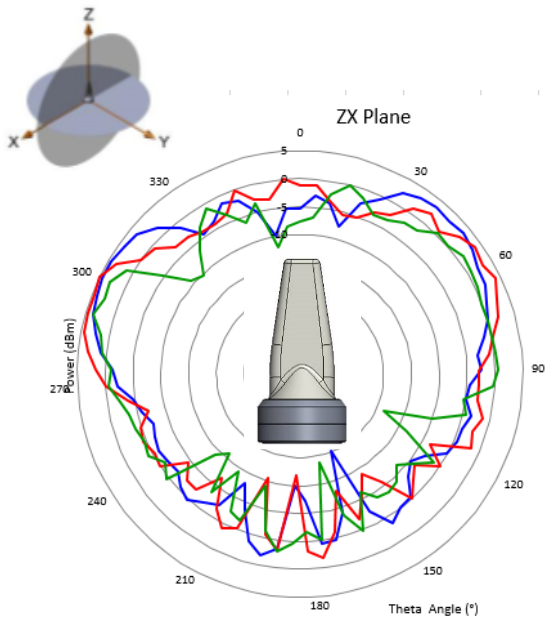
## CHARTS

### Free Space Radiation Pattern

SLPT698/2170NMOHFW    SLPT698/2170NMOHF

#### Elevation Plane

#### Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

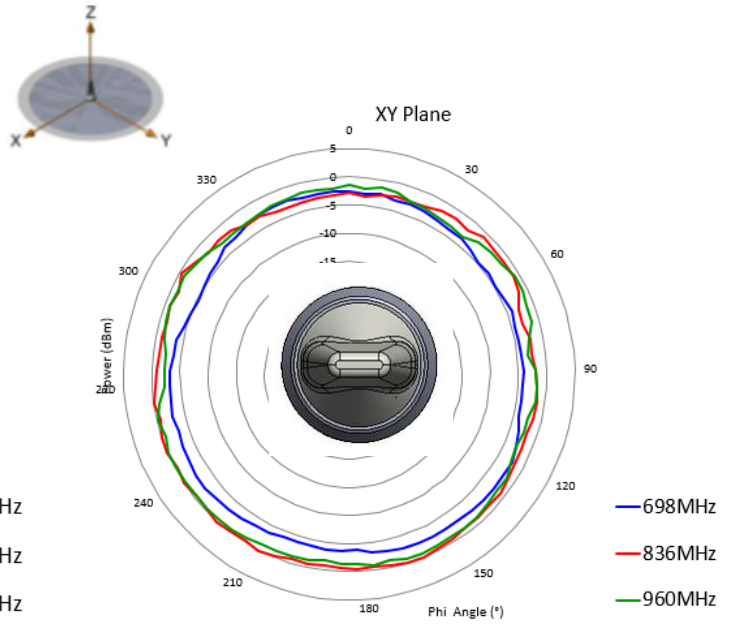
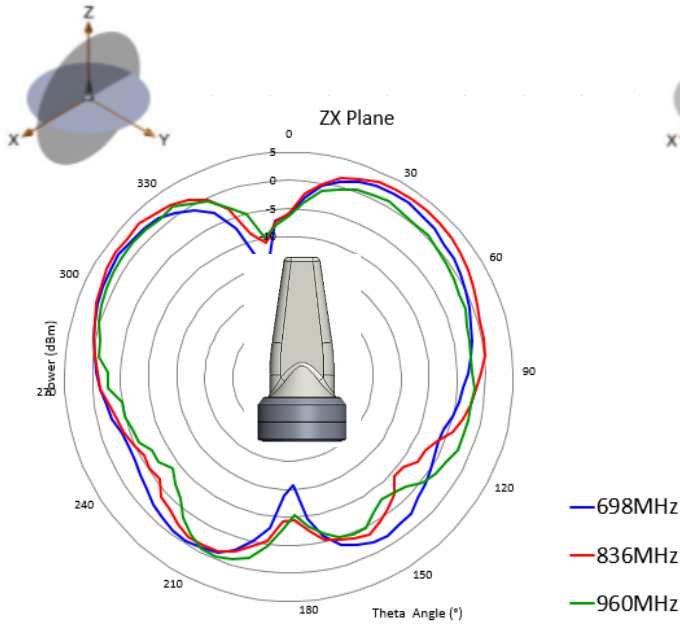
CHARTS

Free Space Radiation Pattern

SLPT698/960NMOW SLPT698/960NMO

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

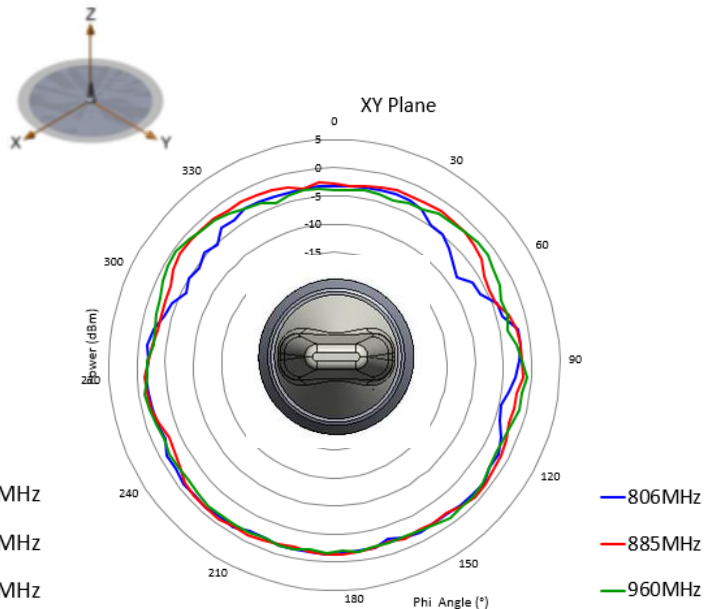
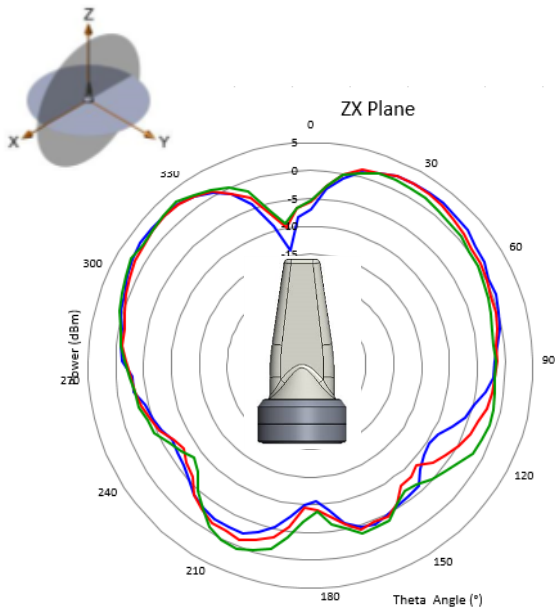
CHARTS

Free Space Radiation Pattern

SLPT806NMOW SLPT806NMO

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

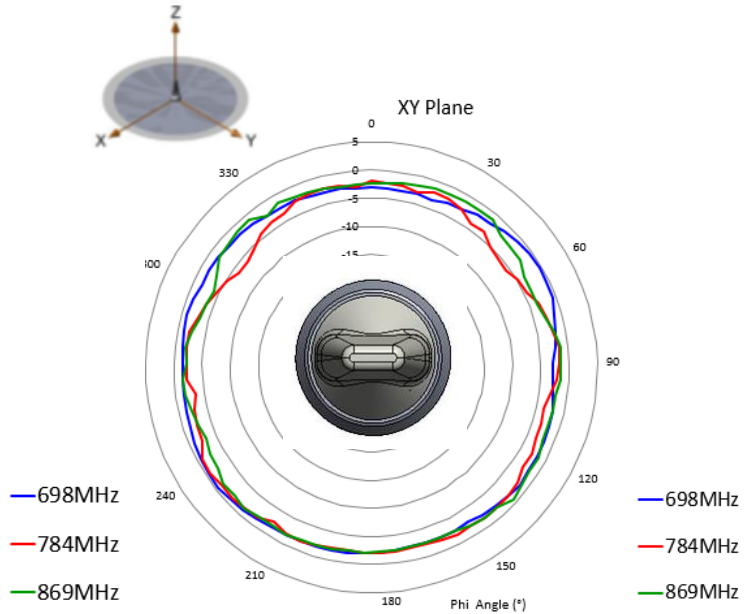
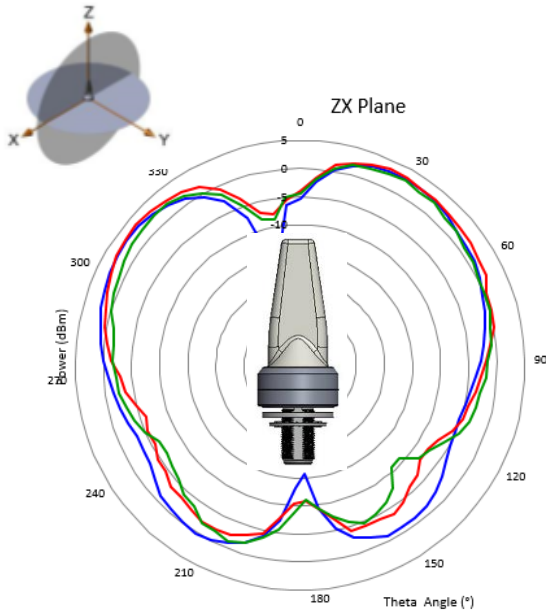
**CHARTS**

Free Space Radiation Pattern

SLPT698/869DMNW    SLPT698/869DMN

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

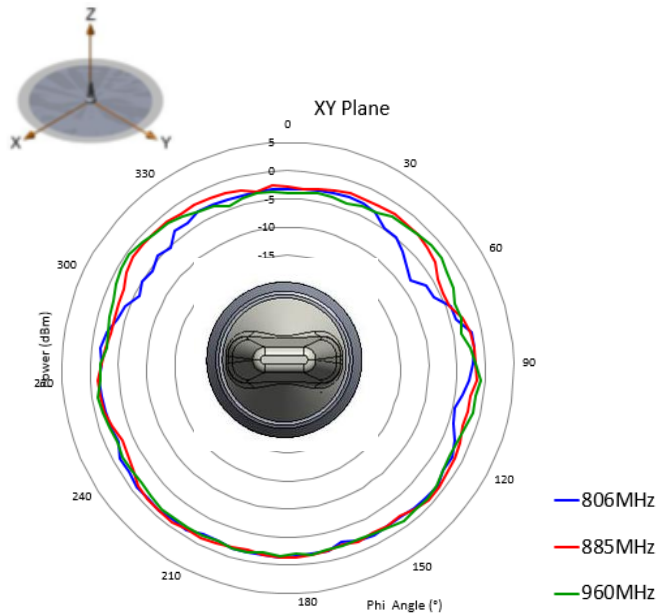
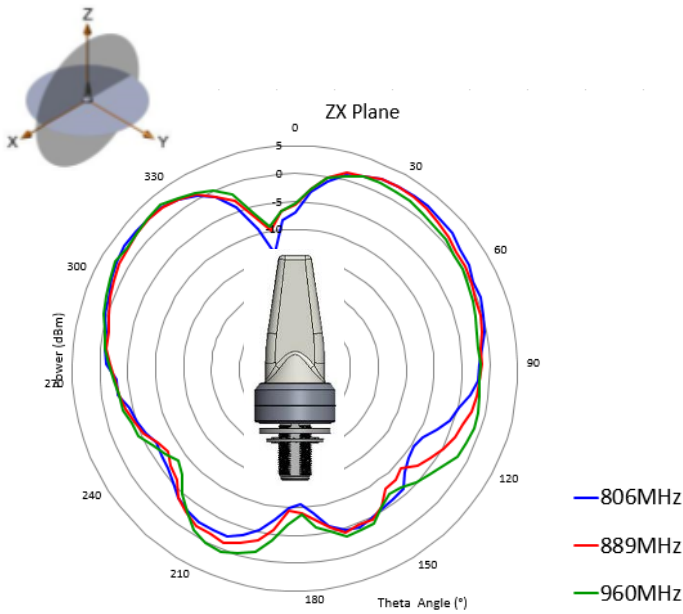
CHARTS

Free Space Radiation Pattern

SLPT806DMNW SLPT806DMN

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

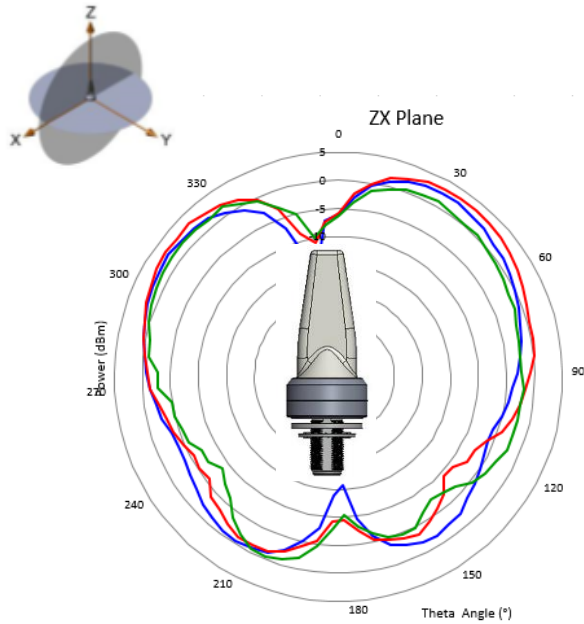
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

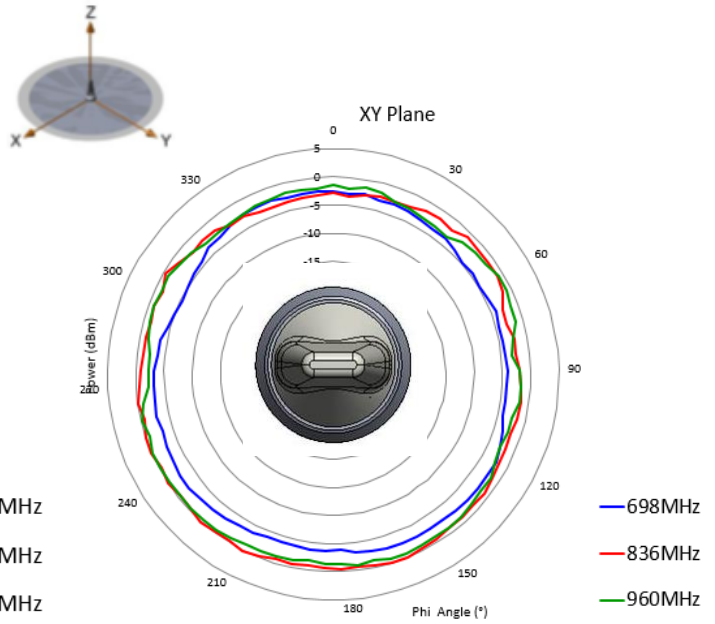
Free Space Radiation Pattern

SLPT698/2170DMNW SLPT698/2170DMN

Elevation Plane



Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

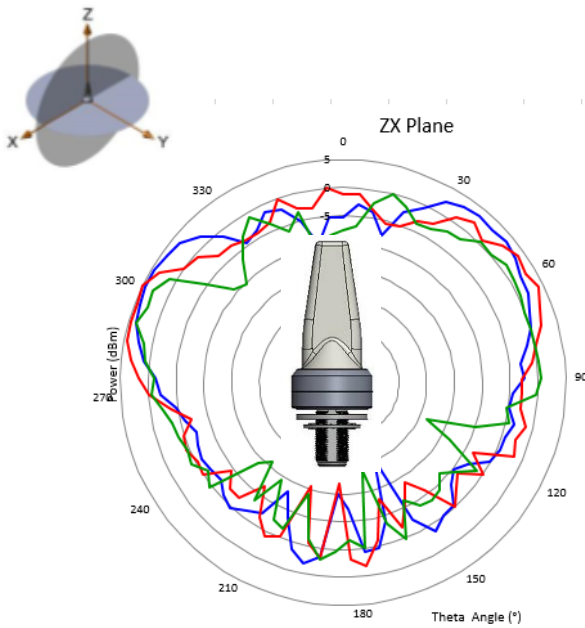
CHARTS

Free Space Radiation Pattern

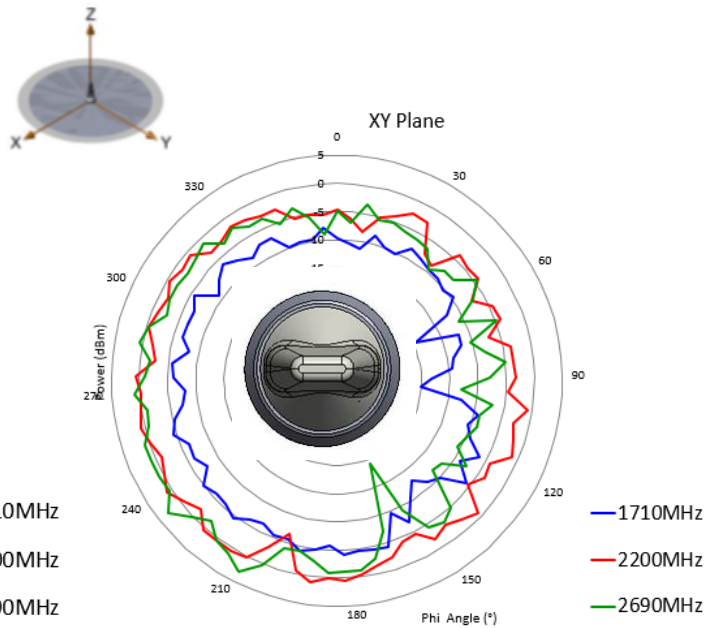
SLPT698/2170DMNW SLPT698/2170DMN

Elevation Plane

Horizontal Plane



— 1710MHz  
— 2200MHz  
— 2690MHz



— 1710MHz  
— 2200MHz  
— 2690MHz

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Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

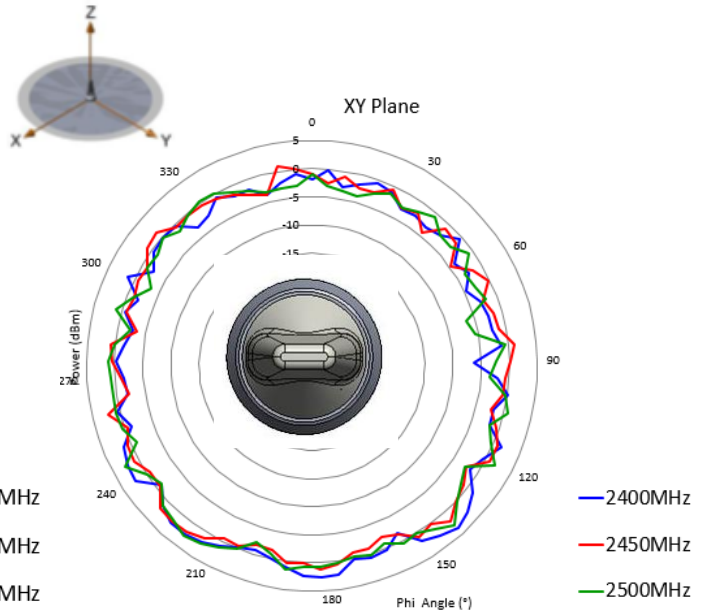
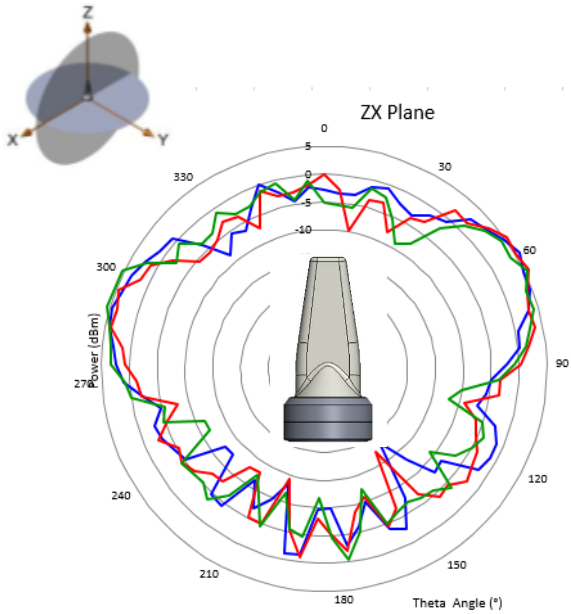
CHARTS

Free Space Radiation Pattern

SLPT2400NMOHFW SLPT2400NMOHF

Elevation Plane

Horizontal Plane



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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

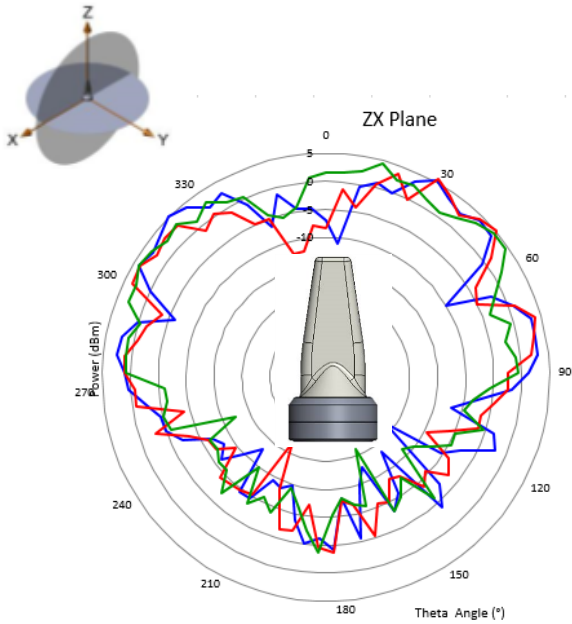
CHARTS

Free Space Radiation Pattern

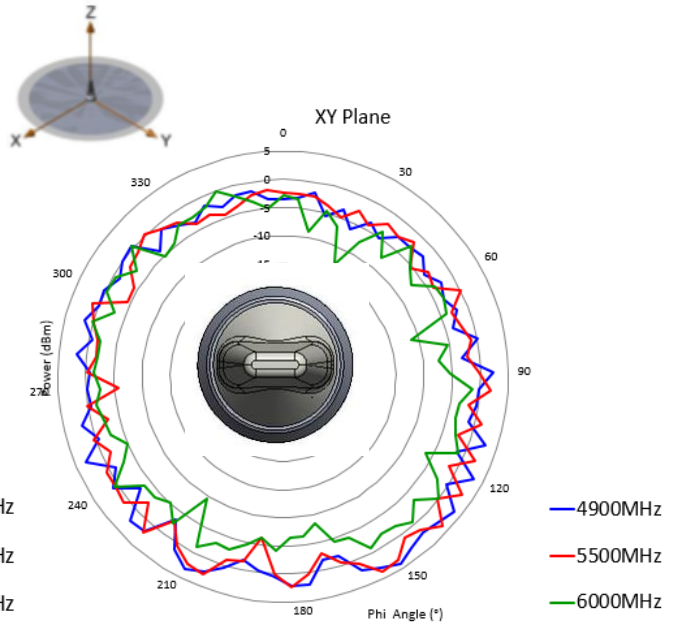
SLPT4900NMOHFW SLPT4900NMOHF

Elevation Plane

Horizontal Plane



— 4900MHz  
— 5500MHz  
— 6000MHz



— 4900MHz  
— 5500MHz  
— 6000MHz

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

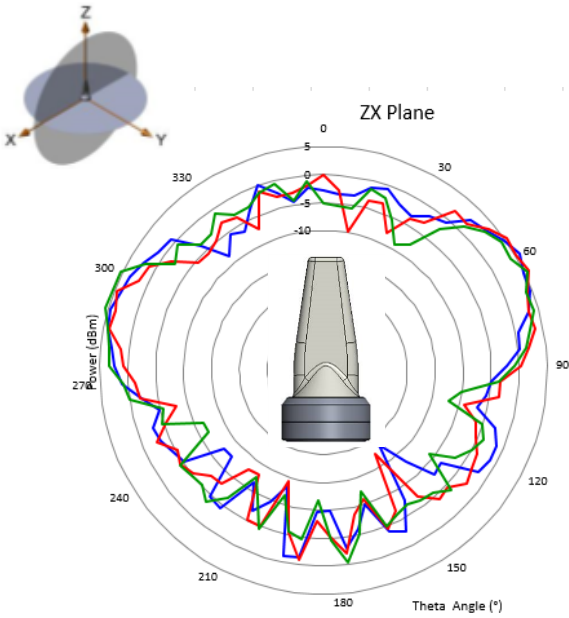
CHARTS

Free Space Radiation Pattern

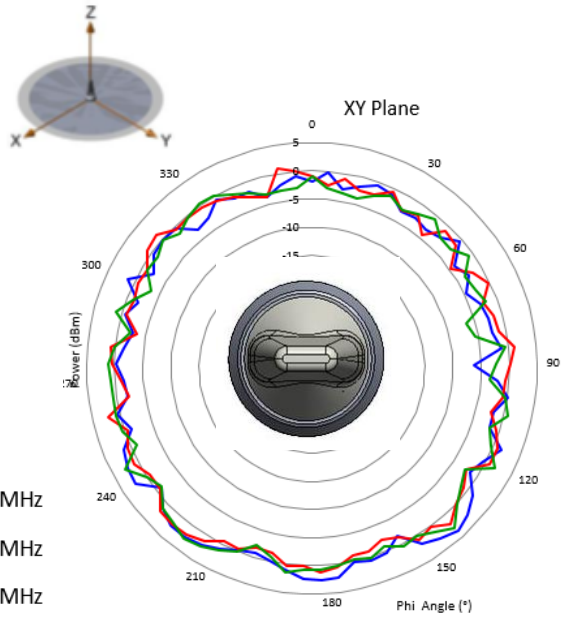
SLPT245NMOHFW SLPT2400/5900NMOHF

Elevation Plane

Horizontal Plane



— 2400MHz  
— 2450MHz  
— 2500MHz



— 2400MHz  
— 2450MHz  
— 2500MHz

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

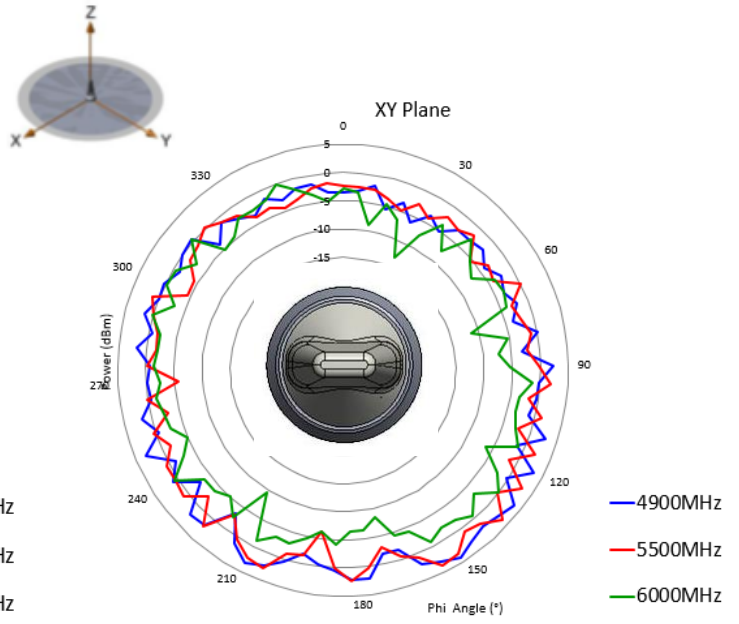
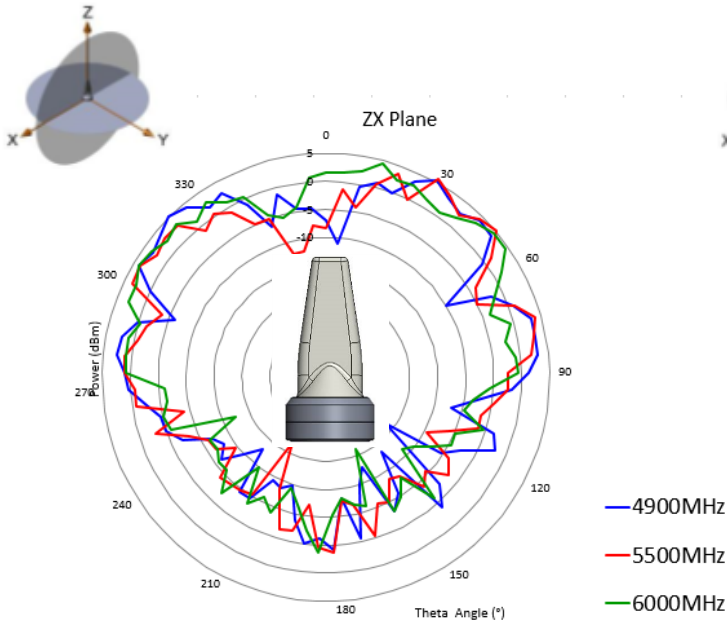
CHARTS

Free Space Radiation Pattern

SLPT245NMOHFW SLPT2400/5900NMOHF

Elevation Plane

Horizontal Plane



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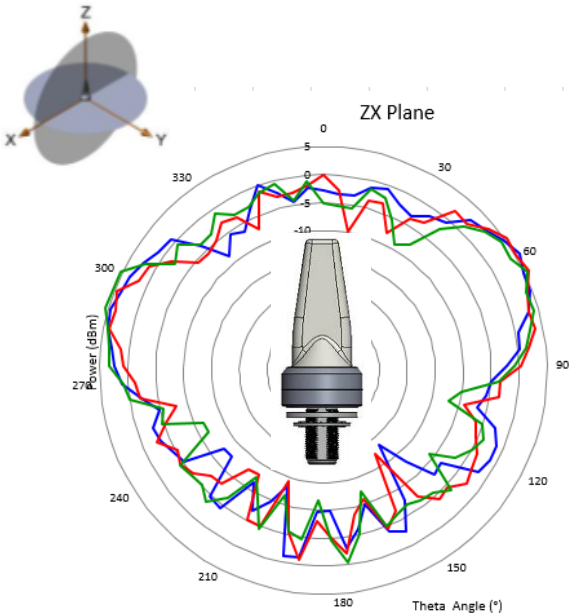
CHARTS

Free Space Radiation Pattern

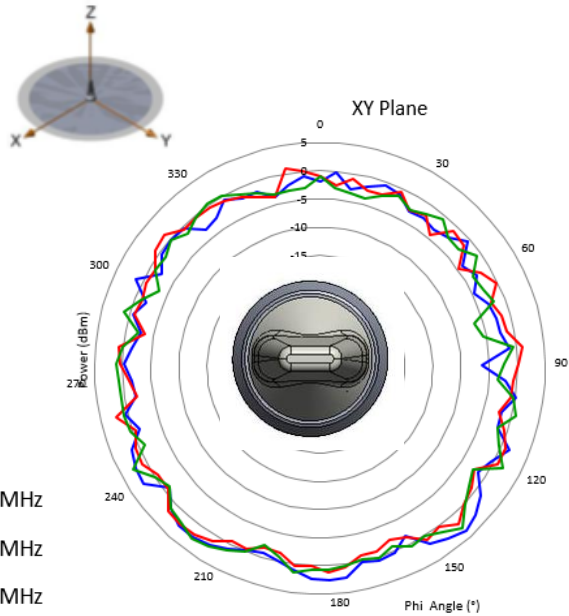
SLPT2400DMNW SLPT2400DMN

Elevation Plane

Horizontal Plane



— 2400MHz  
— 2450MHz  
— 2500MHz



— 2400MHz  
— 2450MHz  
— 2500MHz

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

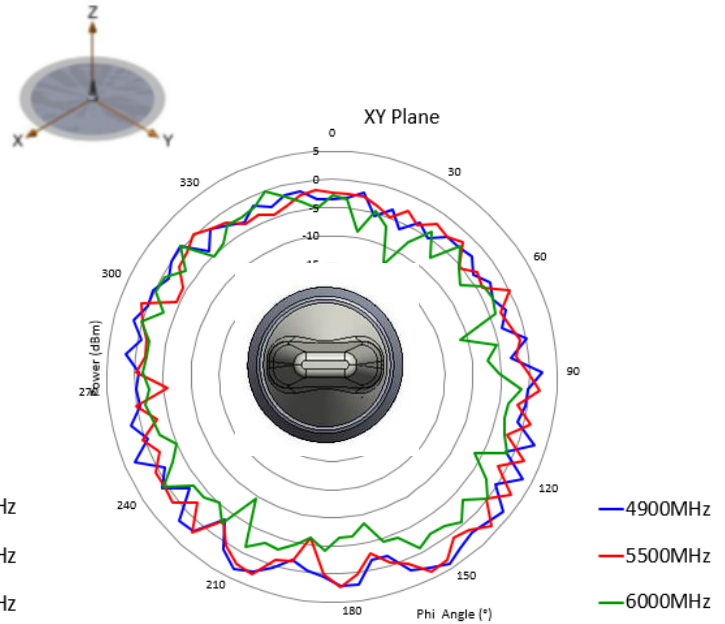
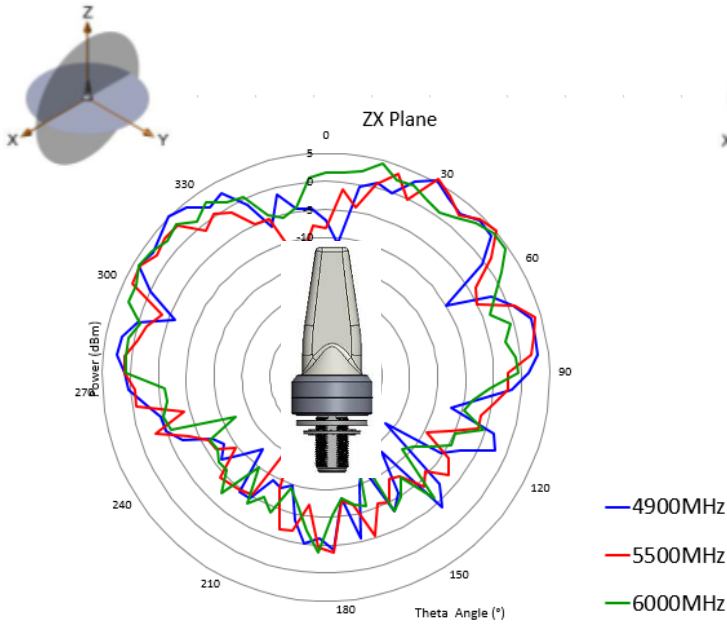
CHARTS

Free Space Radiation Pattern

SLPT4900DMNW SLPT4900DMN

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

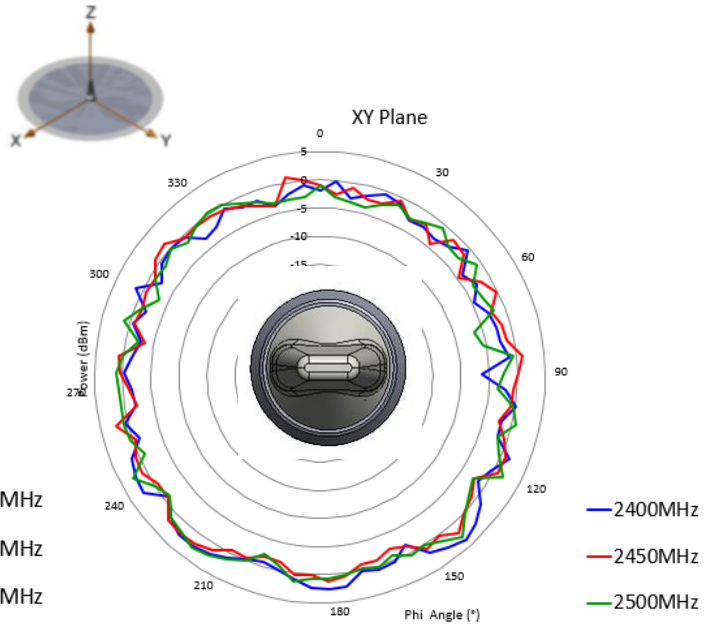
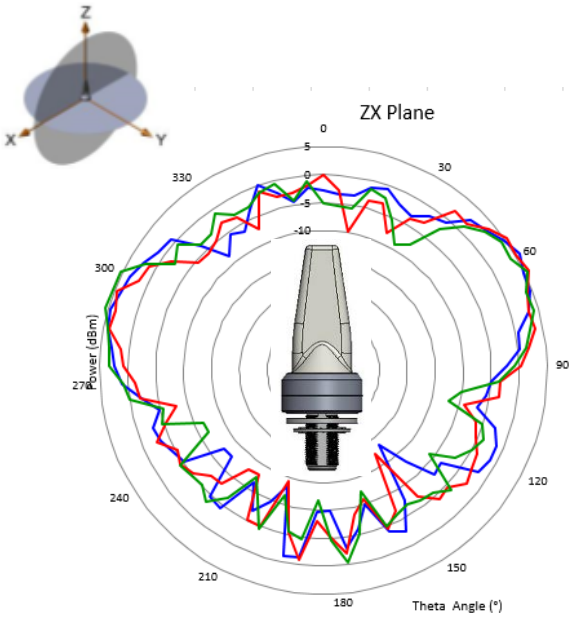
CHARTS

Free Space Radiation Pattern

SLPT2400/5900DMNW SLPT2400/5900DMN

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

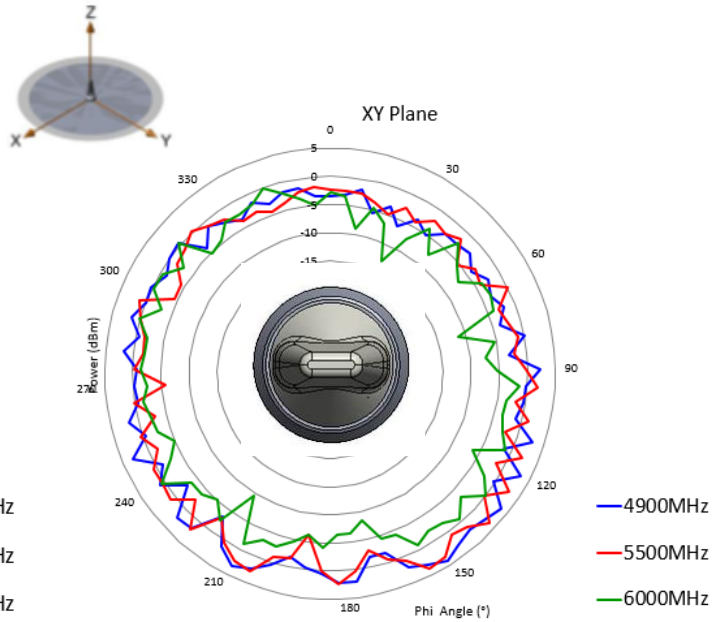
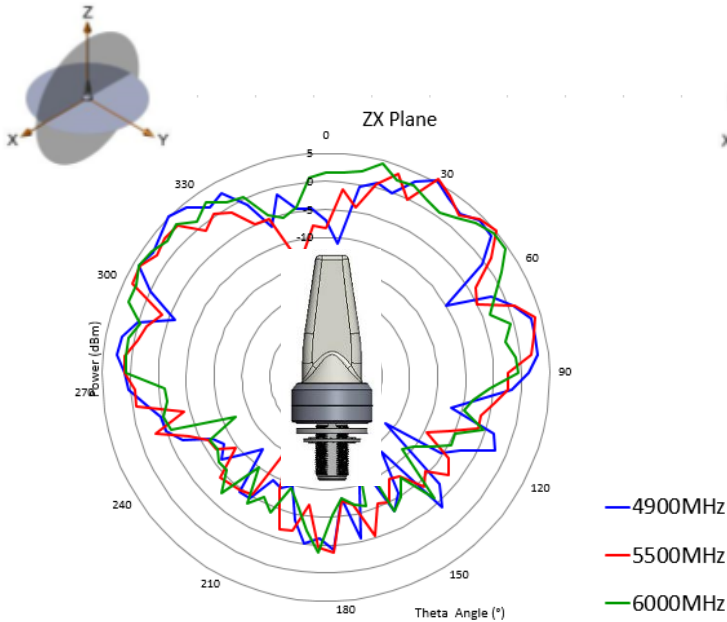
CHARTS

Free Space Radiation Pattern

SLPT2400/5900DMNW SLPT2400/5900DMN

Elevation Plane

Horizontal Plane



Issue: 1829

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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