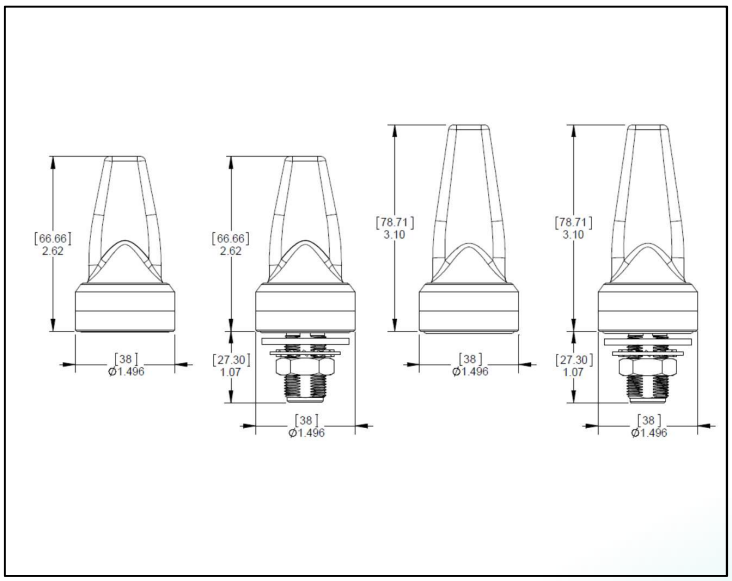
PulseLARSEN Antennas

TECHNICAL DATA SHEET

Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX



All dimensions are in mm / inches

Features:

- Transparent clear visually appealing plastic radome
- Short, slim profile without sacrificing RF or mechanical performance
- Direct and NMO mount models
- IP67 Weatherproof

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: 1743

RoHS COMPLIANT

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For more information:

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Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

PulseLARSEN Antennas

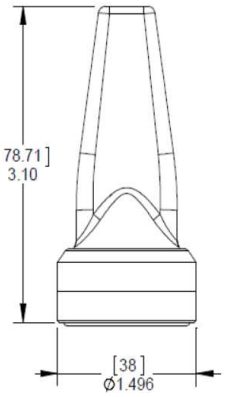
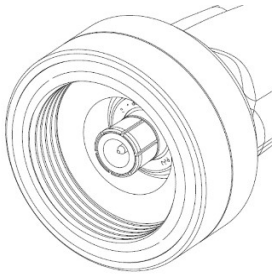
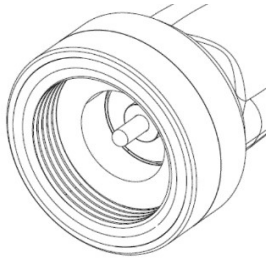
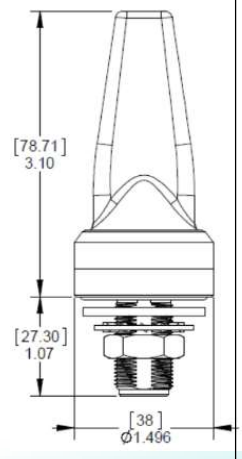
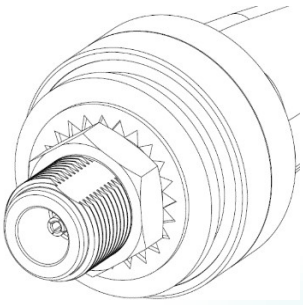
TECHNICAL DATA SHEET

Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

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

Project	Color	Frequency	Size	Fixing System Connector
ICEFINLNMOHF	**Clarity**	**698-960MHz 1710-2700MHz**		 NMOHF NMO + HF Connector
ICEFIN698/960NMO	**Clarity**	**750-960MHz**		 NMO Pogo Pin Connector
ICEFIN806NMO	**Clarity**	**806-960MHz**		
ICEFIN698/869DMN	**Clarity**	**698-869MHz**		 DMN Direct Mount + N Female Connector (Screw 5/18-24 UNEF 2A)
ICEFIN806DMN	**Clarity**	**806-960MHz**		
ICEFINLDMN	**Clarity**	**698-960MHz 1710-2700MHz**		

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RoHS COMPLIANT

PulseLARSEN Antennas

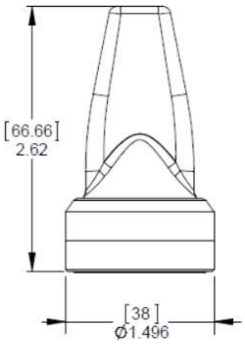
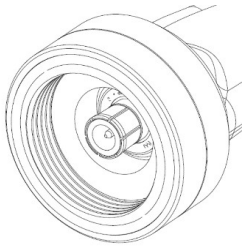
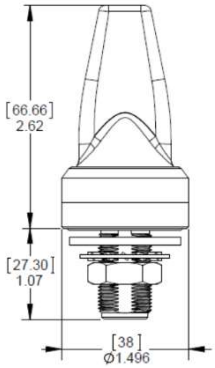
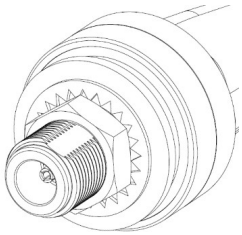
TECHNICAL DATA SHEET

Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

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

Project	Color	Frequency	Size	Fixing System Connector
ICEFIN24NMOHF	**Clarity**	**2400-2500MHz**		 NMOHF NMO + HF Connector
ICEFIN49NMOHF	**Clarity**	**4900-6000MHz**		
ICEFINWNMOHF	**Clarity**	**2400-2500MHz 4900-6000MHz**		
ICEFIN24DMN	**Clarity**	**2400-2500MHz**		 Direct Mount N Female Connector (Screw 5/18-24 UNEF 2A)
ICEFIN49DMN	**Clarity**	**4900-6000MHz**		
ICEFINWDMN	**Clarity**	**2400-2500MHz 4900-6000MHz**		

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.

Issue: 1743

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RoHS COMPLIANT

Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

ELECTRICAL SPECIFICATIONS

Project	Frequency	VSWR	Peak Gain	Efficiency	Power Handling
ICEFINLNMOHF	698-960MHz 1710-2700MHz	3.2:1(0.698-0.96GHz) 2:1(1.71-2.7GHz)	2.98dBi(0.698-0.96GHz) 3.82dBi(1.71-2.69GHz)	75% 61%	20W(100% duty cycle) 30W(50% duty cycle)
ICEFIN698/960NMO	750-960MHz	2.2:1	4.5dBi	65%	30W(100% duty cycle) 40W(50% duty cycle)
ICEFIN806NMO	806-960MHz	2.2:1	2.91dBi	63%	30W(100% duty cycle) 40W(50% duty cycle)
ICEFIN698/869DMN	698-869MHz	2.3:1	2.6dBi	54%	5W(100% duty cycle) 15W(50% duty cycle)
ICEFIN806DMN	806-960MHz	2.2:1	3.7dBi	78%	10W(100% duty cycle) 20W(50% duty cycle)
ICEFINLDMN	698-960MHz 1710-2700MHz	3.2:1(0.698-0.96GHz) 2:1(1.71-2.7GHz)	3.1dBi(0.698-0.96GHz) 5.17dBi(1.71-2.69GHz)	76% 79%	20W(100% duty cycle) 30W(50% duty cycle)

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RoHS COMPLIANT

PulseLARSEN Antennas

TECHNICAL DATA SHEET

Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

ELECTRICAL SPECIFICATIONS

Project	Frequency	VSWR	Peak Gain	Efficiency	Power Handling
ICEFIN24NMOHF	2400-2500MHz	2:1	5.2dBi	88%	20W(100% duty cycle) 30W(50% duty cycle)
ICEFIN49NMOHF	4900-6000MHz	2:1	6.2dBi	66%	20W((100% duty cycle) 30W(50% duty cycle)
ICEFINWNMOHF	2400-2500MHz 4900-6000MHz	2:1(2.4-2.5GHz) 2:1(4.9-6GHz)	5.2dBi 6.2dBi	88% 66%	20W(100% duty cycle) 30W(50% duty cycle)
ICEFIN24DMN	2400-2500MHz	2:1	5.2dBi	88%	20W(100% duty cycle) 30W(50% duty cycle)
ICEFIN49DMN	4900-6000MHz	2:1	6.2dBi	66%	20W(100% duty cycle) 30W(50% duty cycle)
ICEFINWDMN	2400-2500MHz 4900-6000MHz	2:1(2.4-2.5GHz) 2:1(4.9-6GHz)	5.2dBi 6.2dBi	88% 66%	20W(100% duty cycle) 30W(50% duty cycle)

Nominal Impedance	50Ω
Radiation Pattern	omni
Polarization:	Vertical

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Series: IceFin

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MECHANICAL SPECIFICATIONS

Plastic radome	PC
Color	Clarity
Ingress Protection	IP67

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40 ~ +85° C

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Description: LOW PROFILE MULTIBAND ANTENNA

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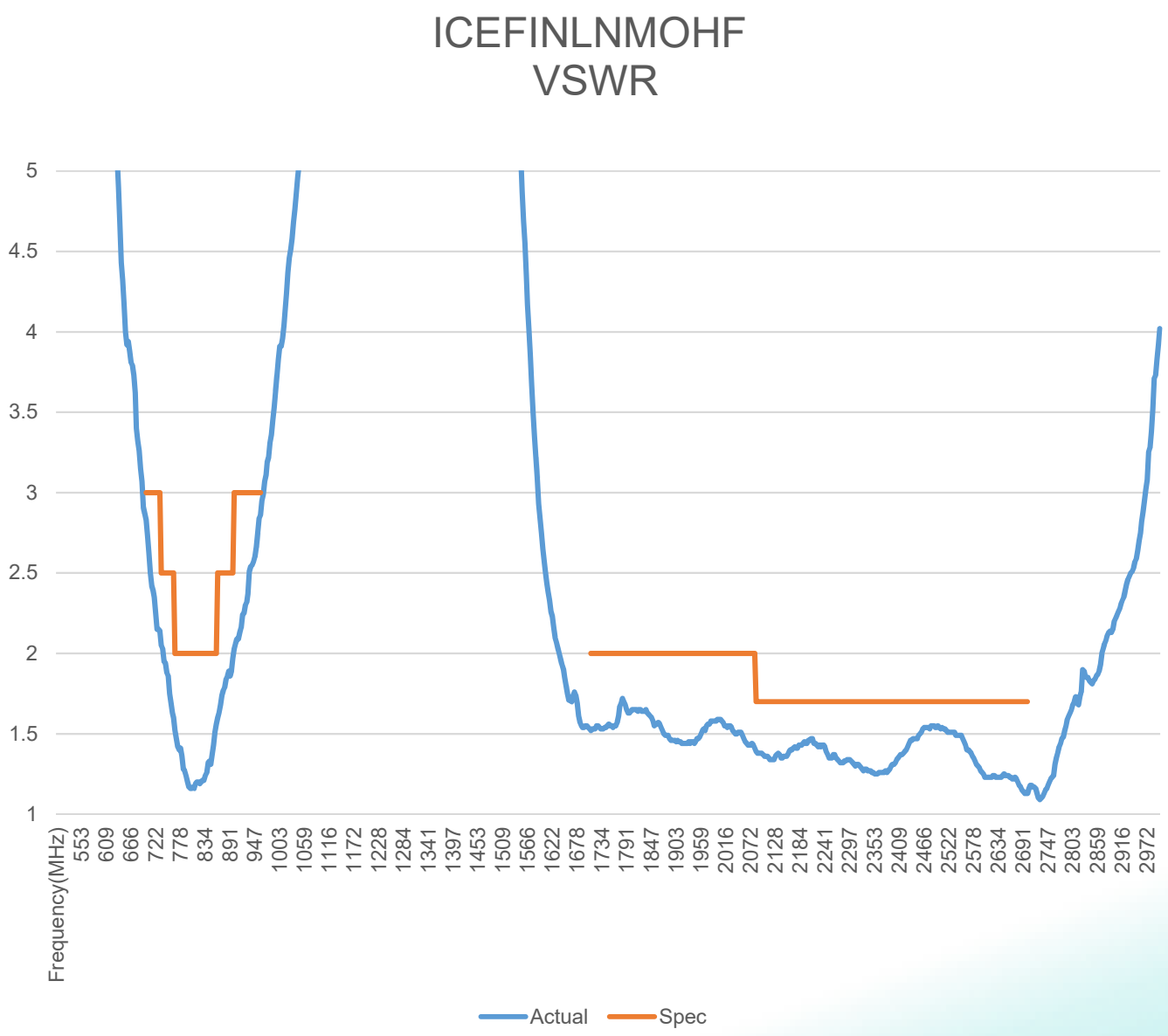
CHARTS

VSWR



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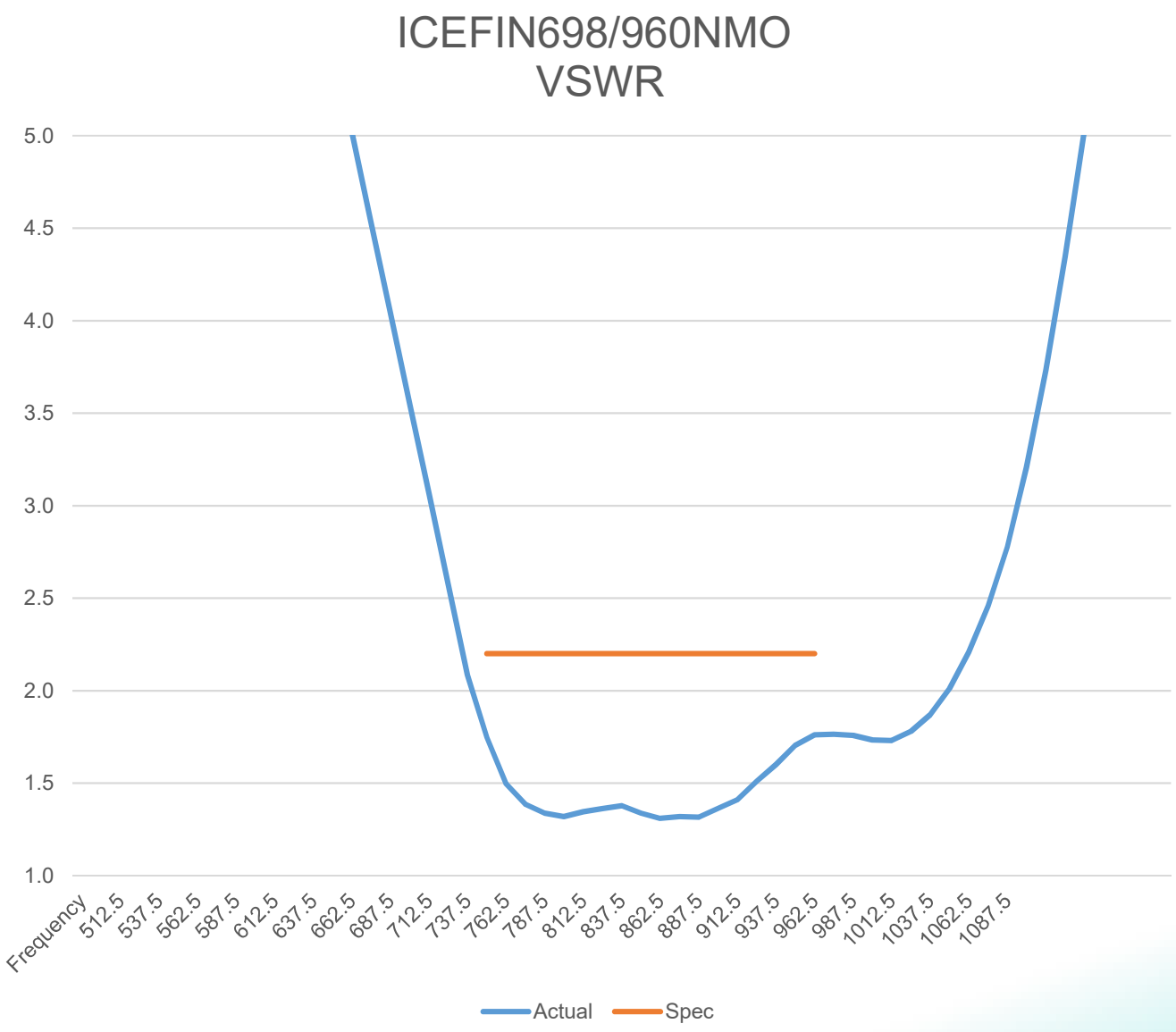

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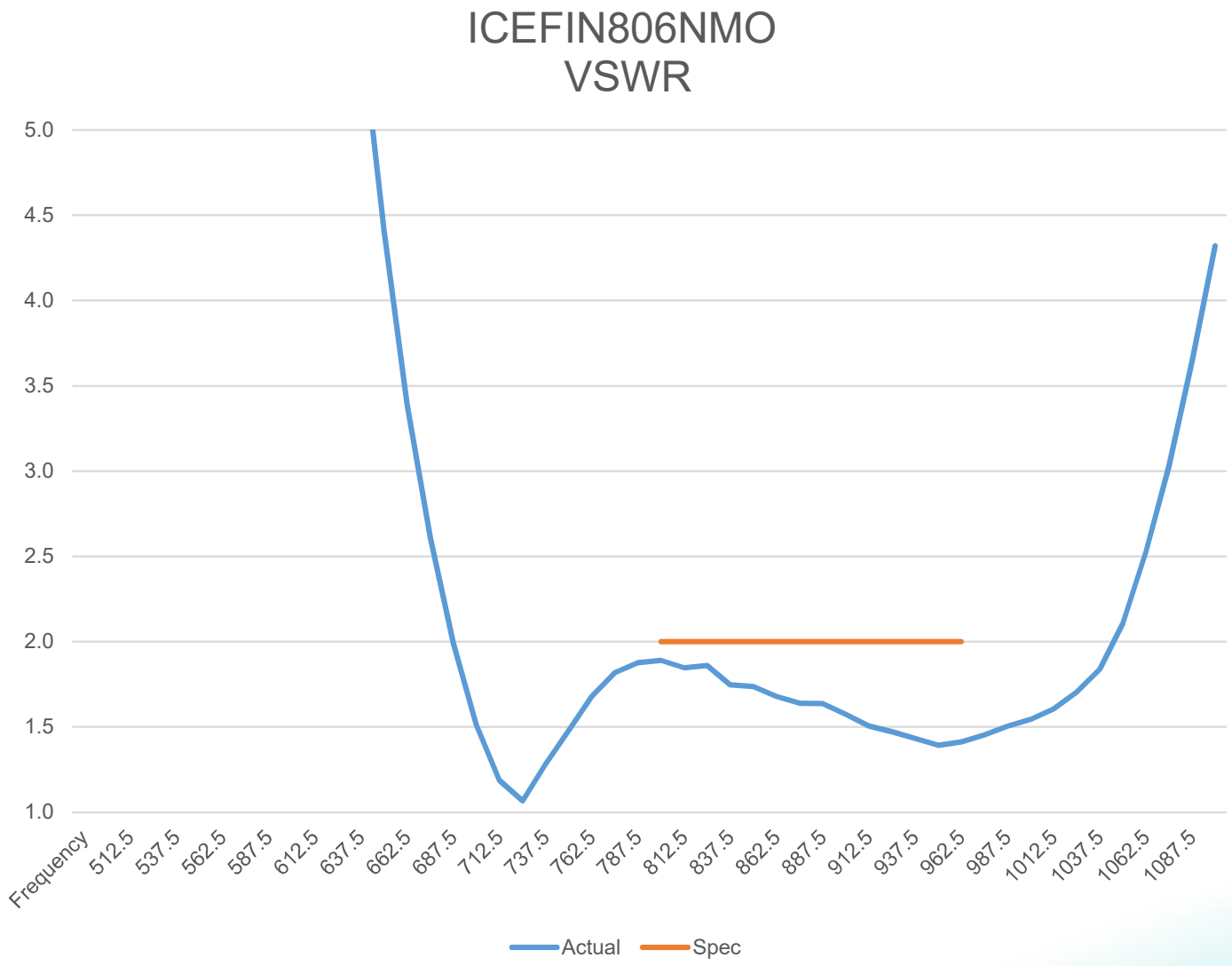

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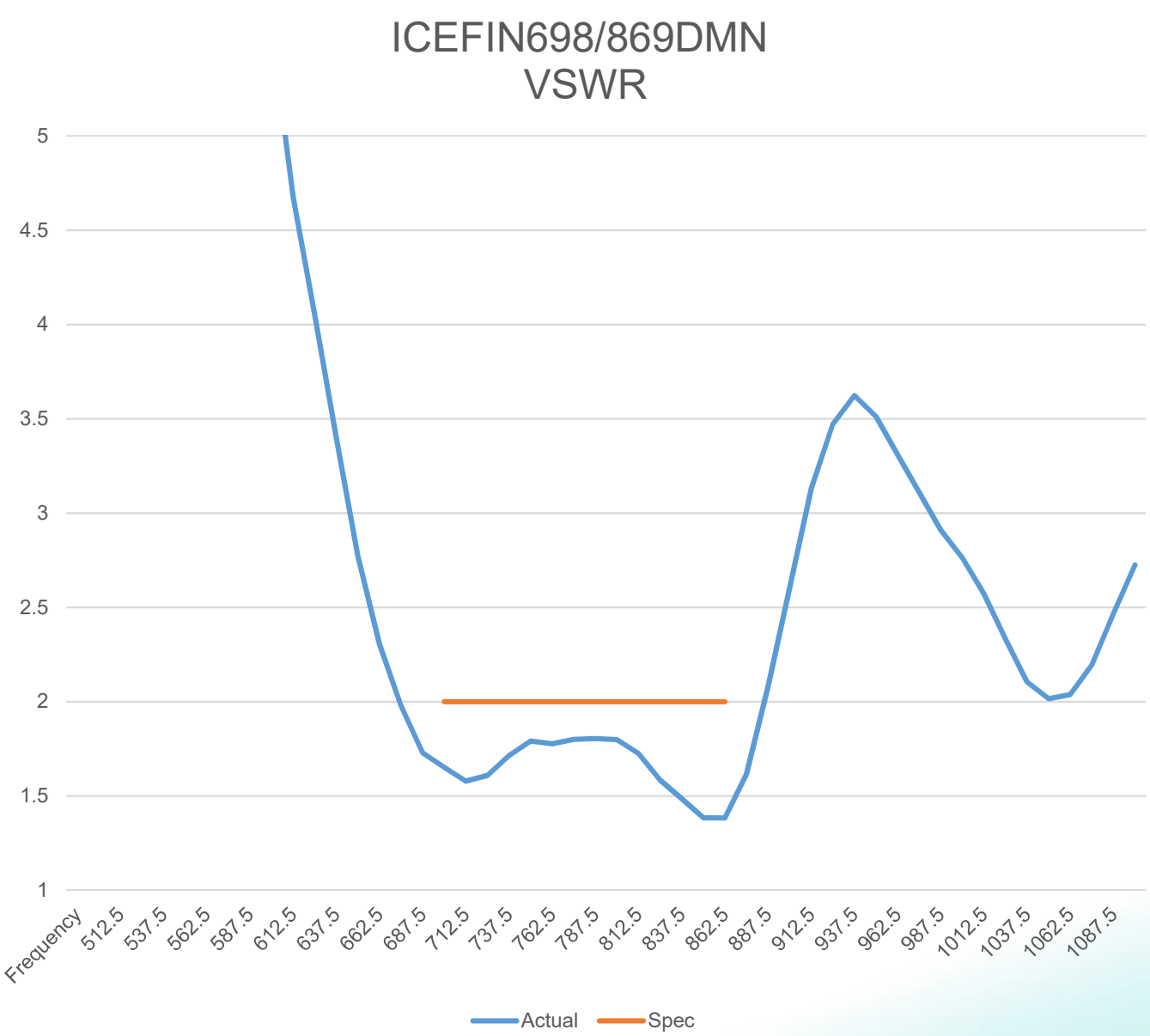

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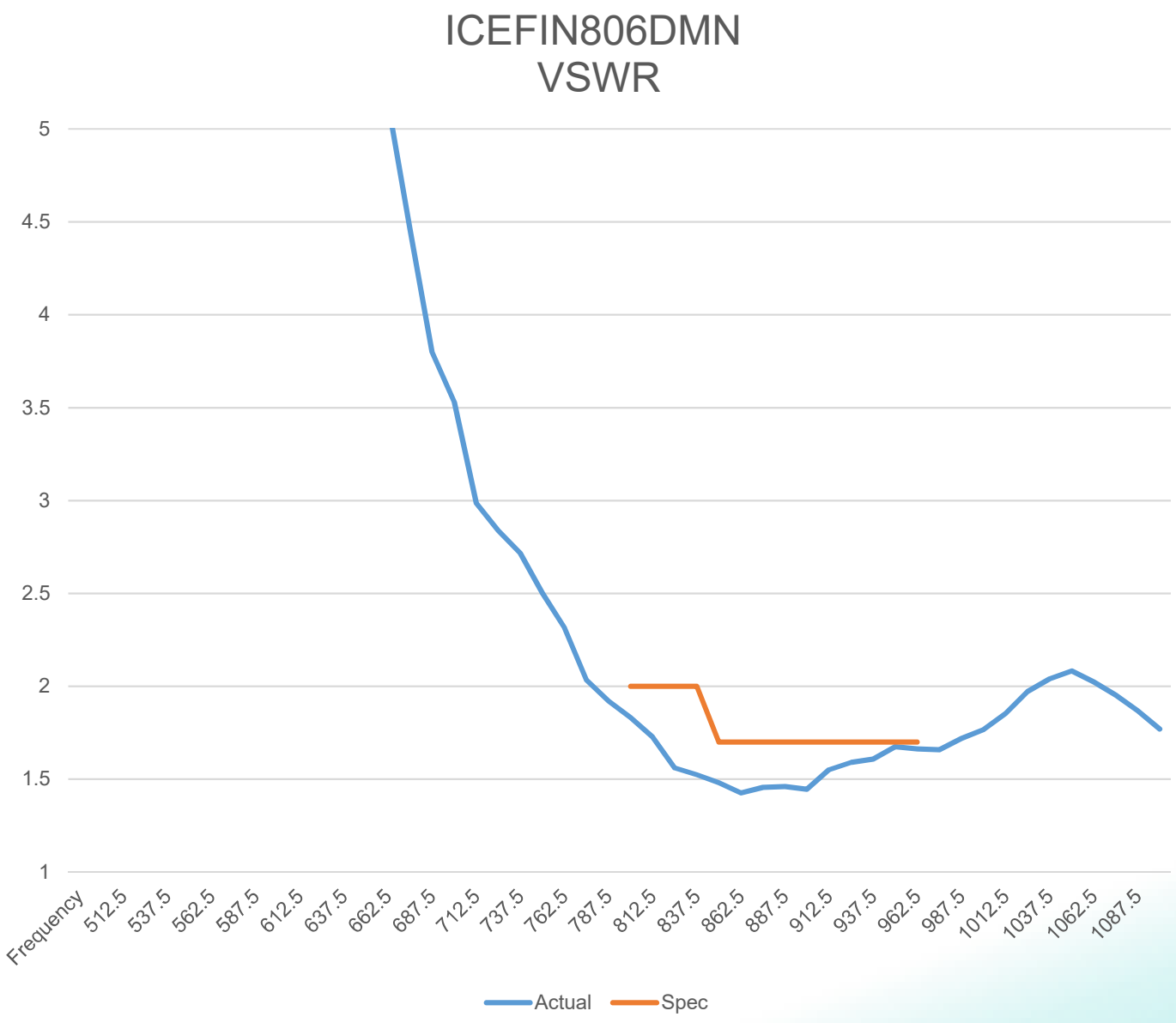

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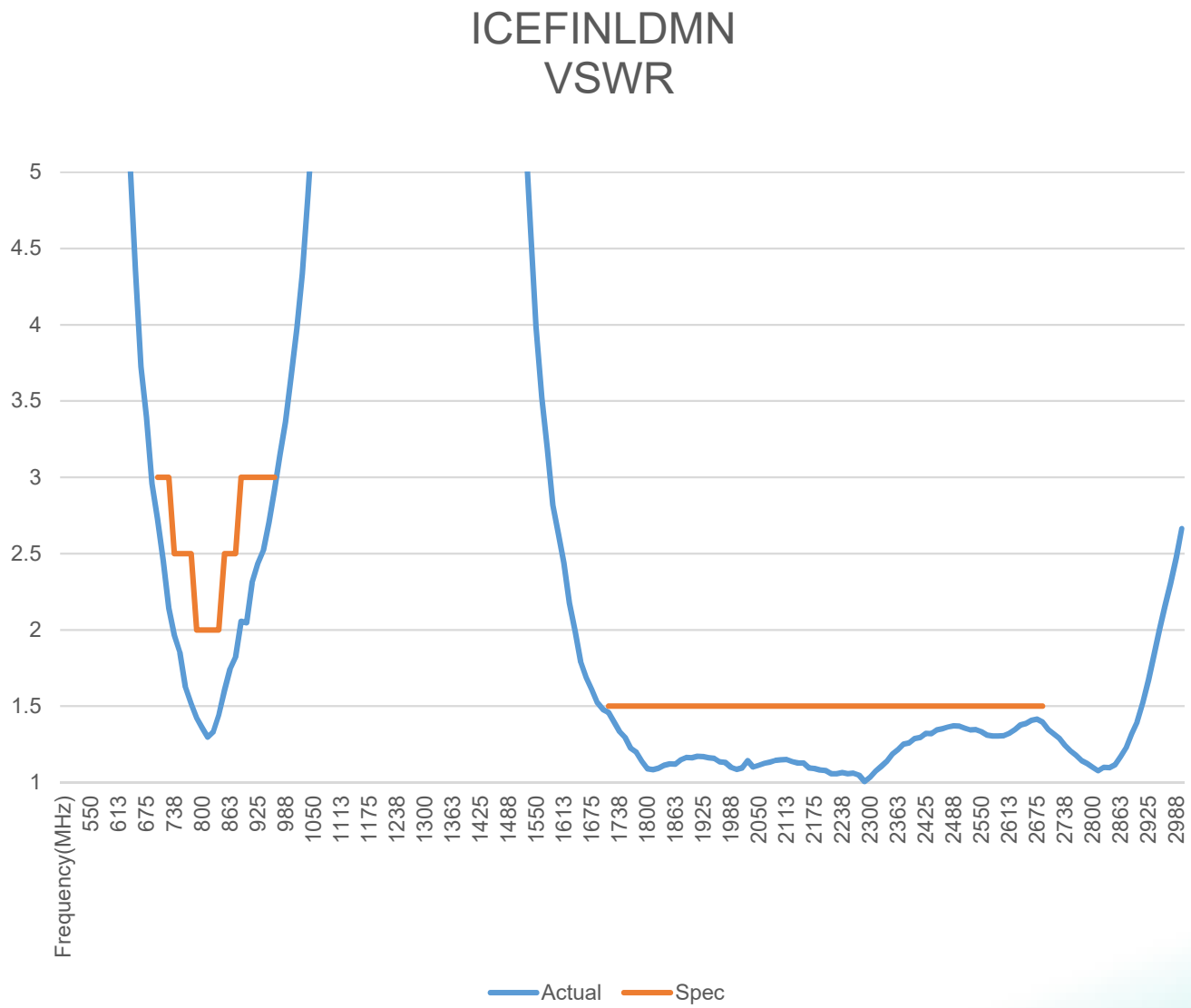

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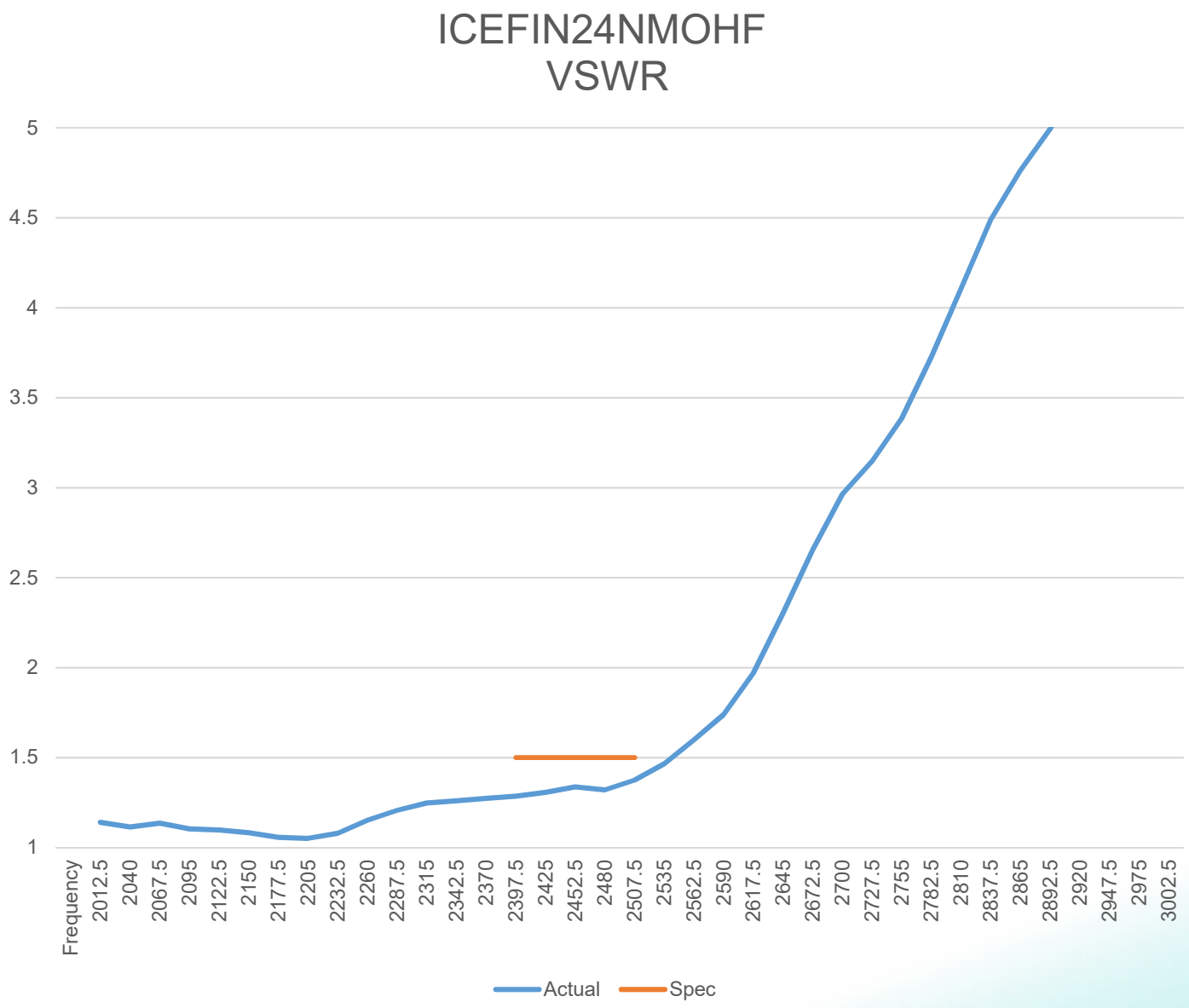

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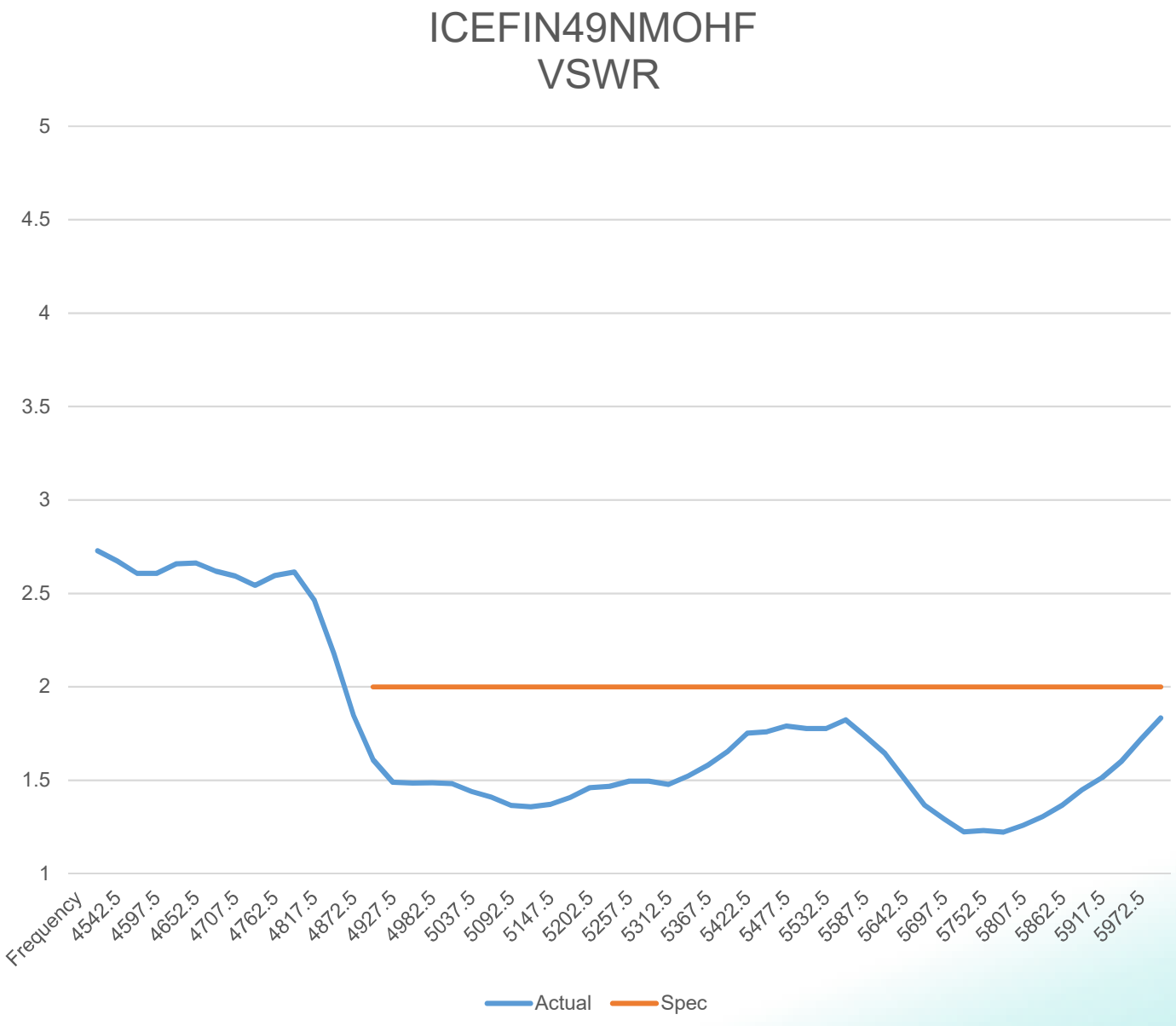

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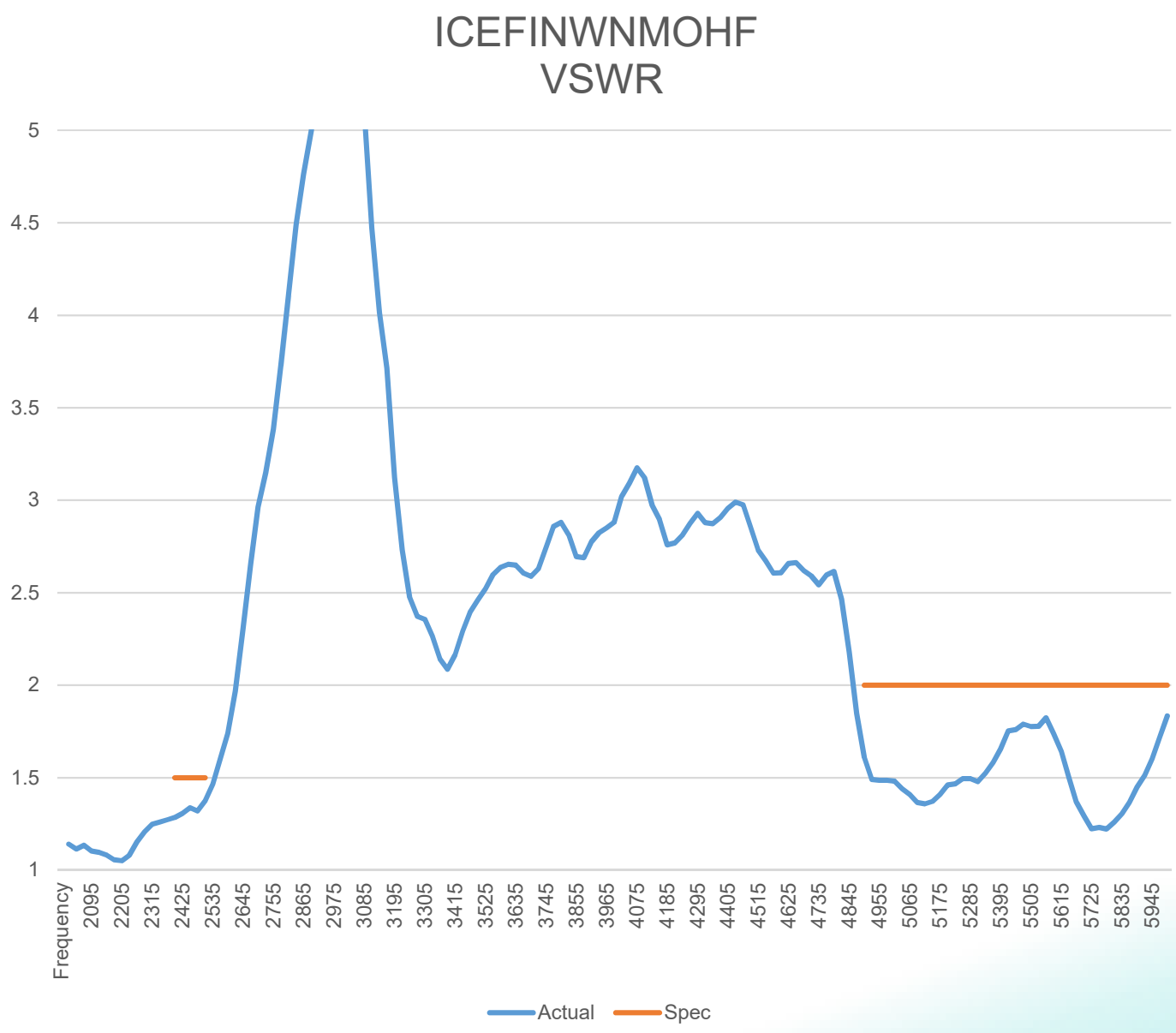

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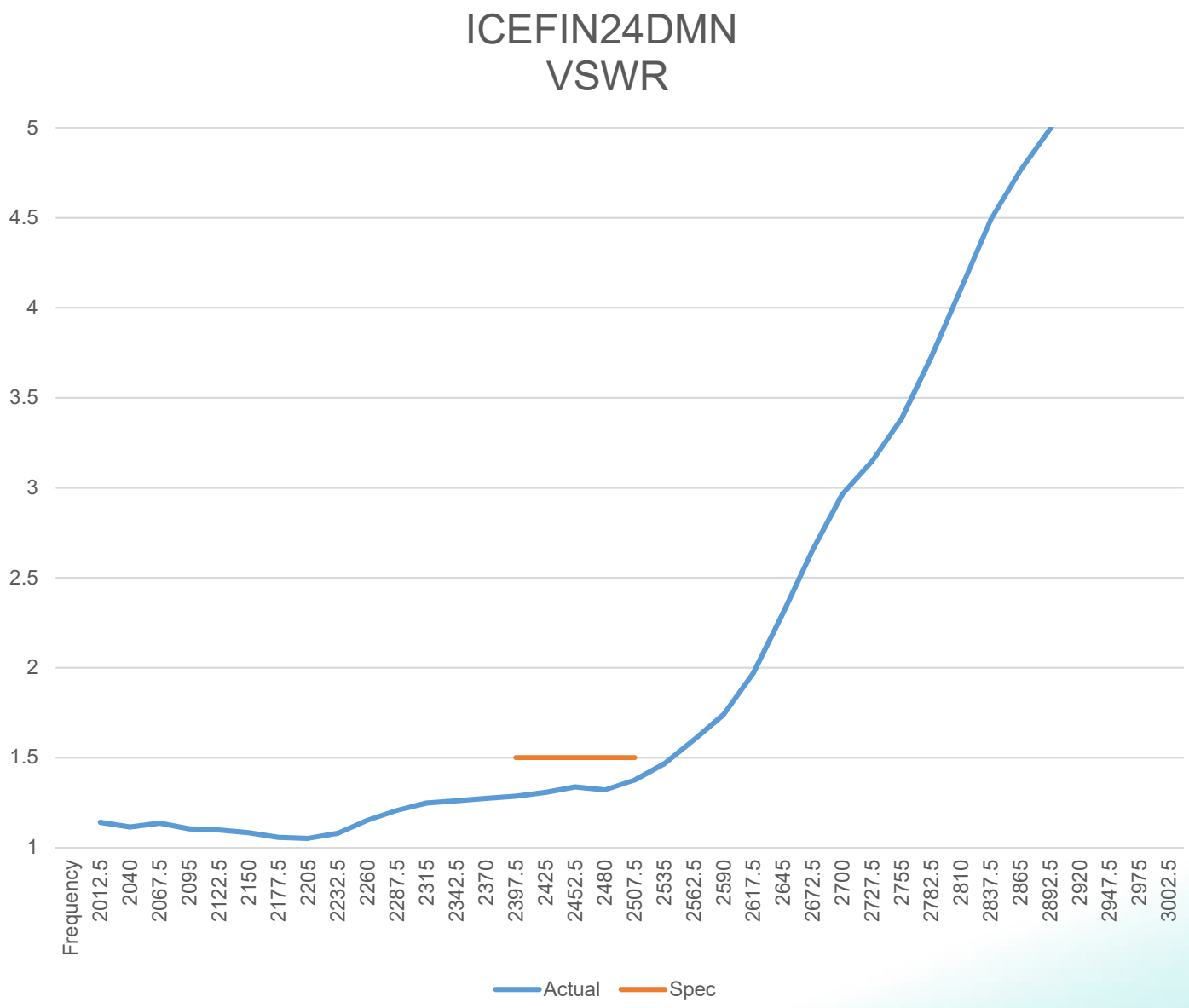

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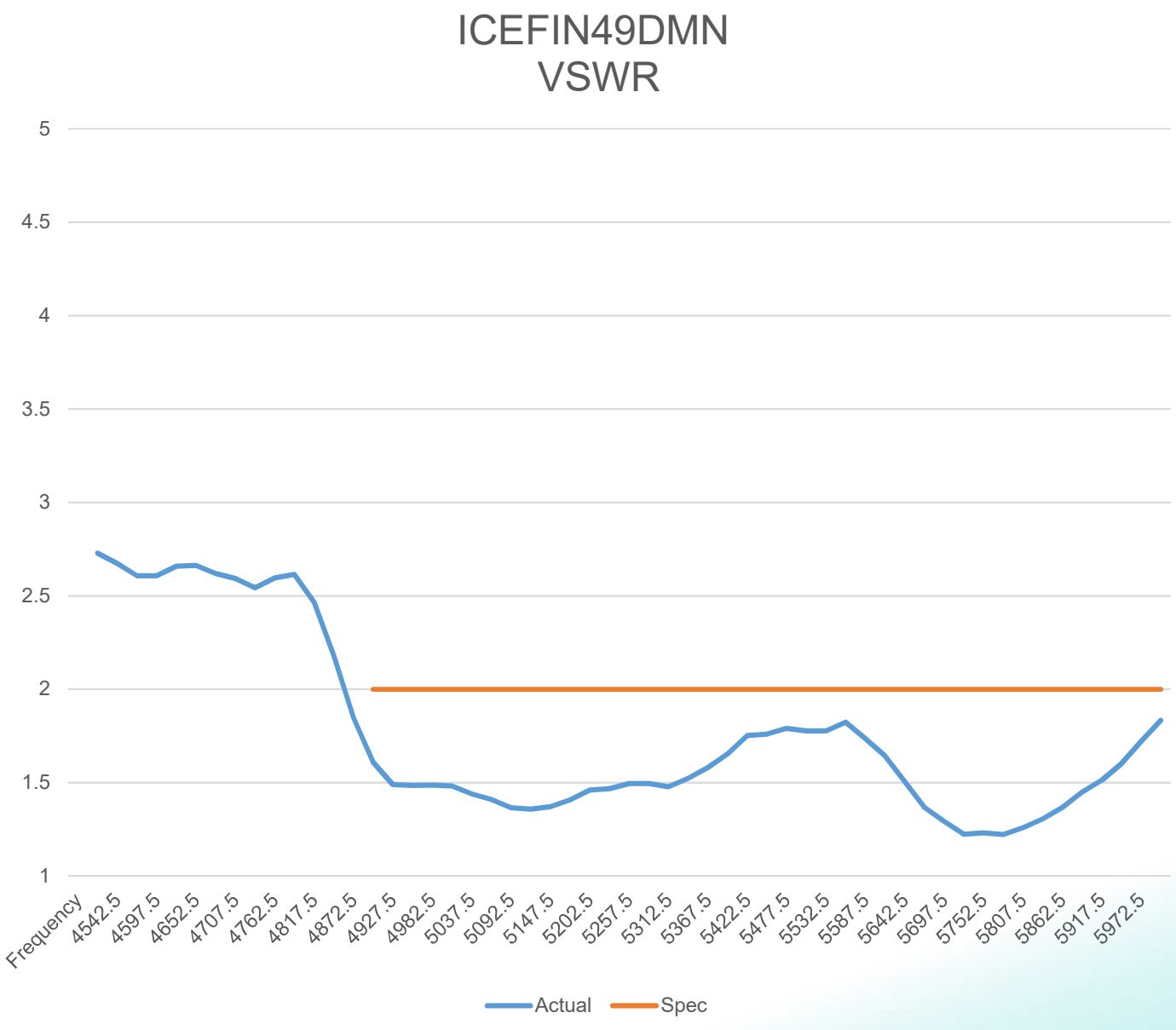

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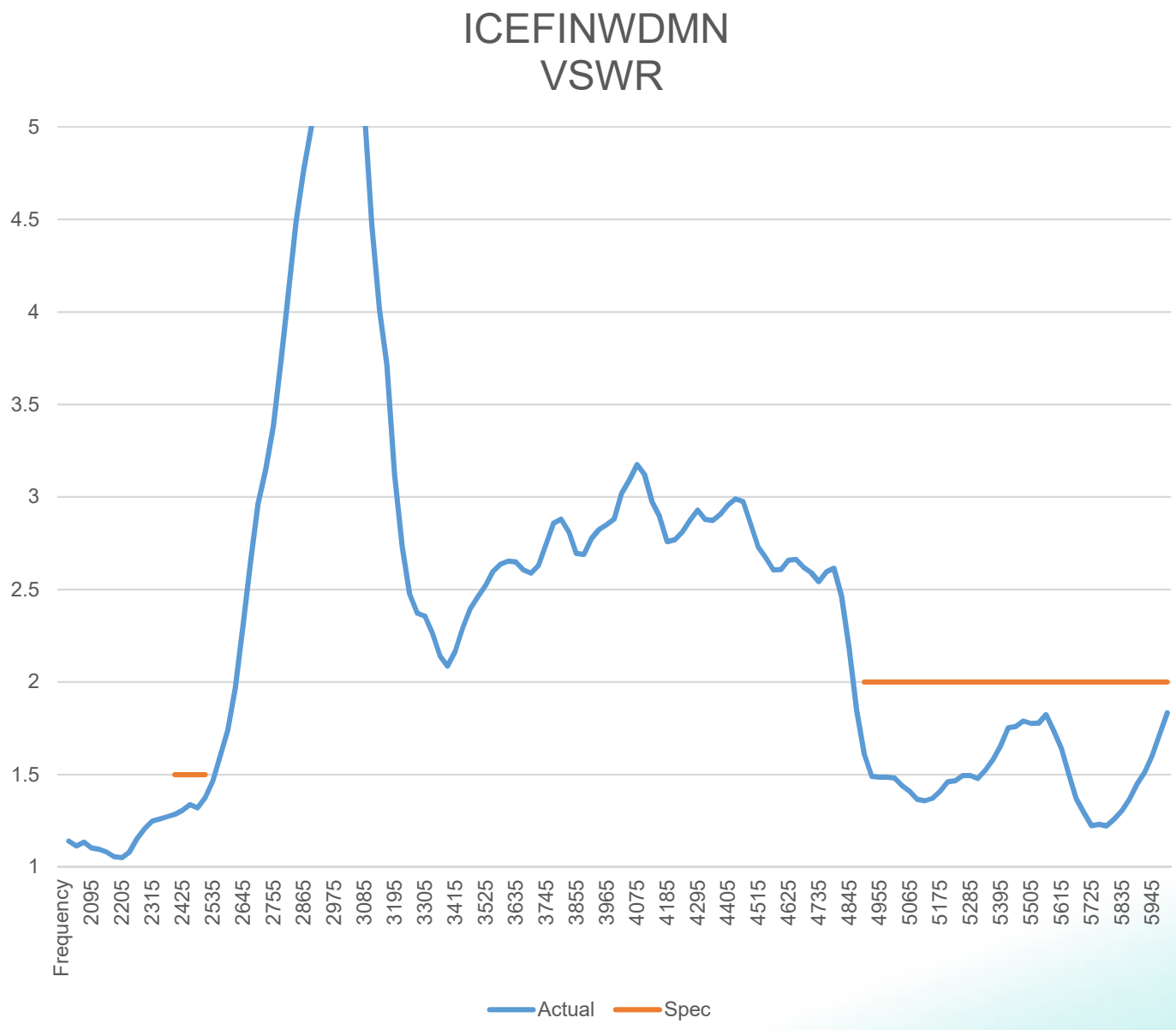

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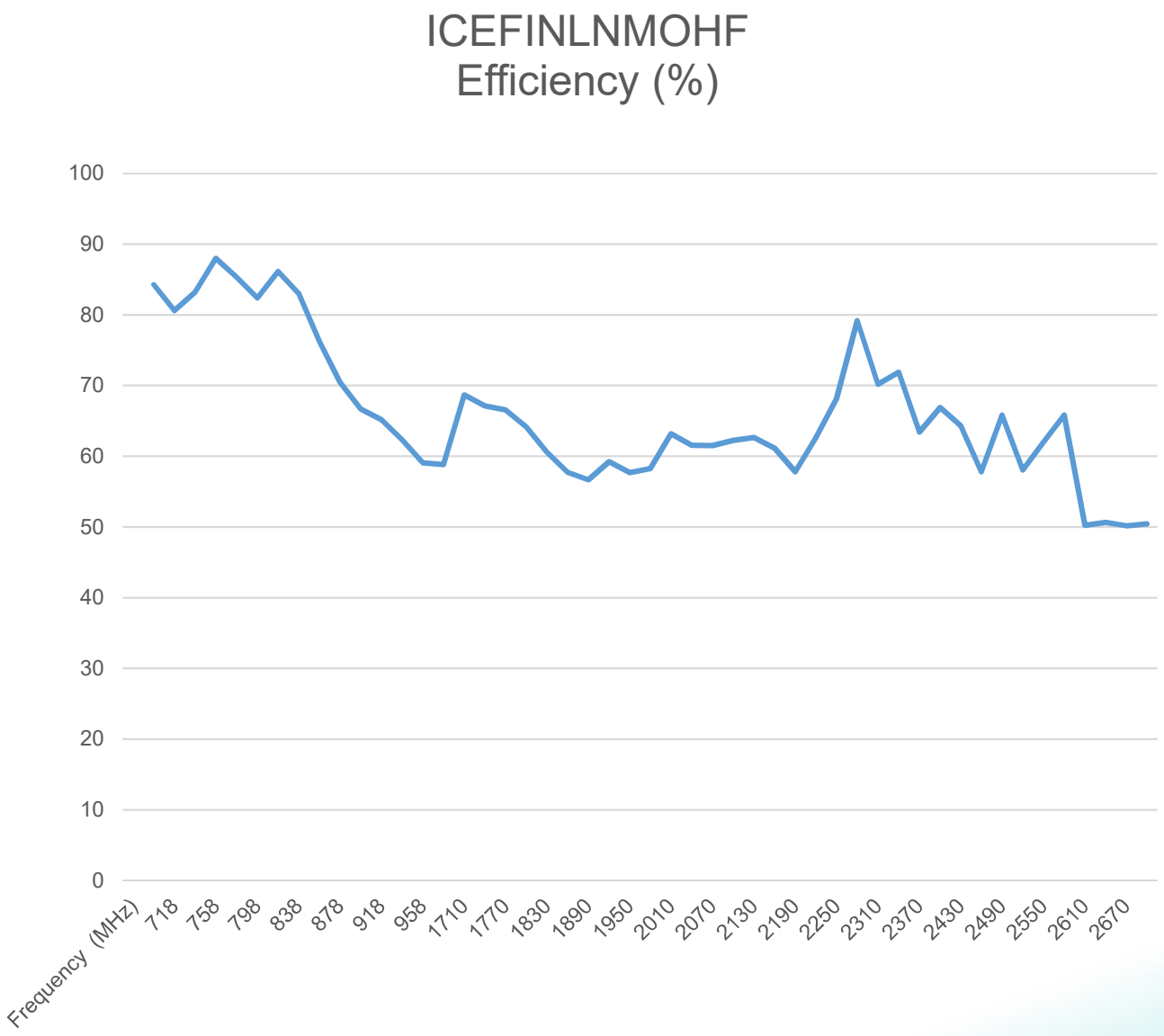
Efficiency(%)



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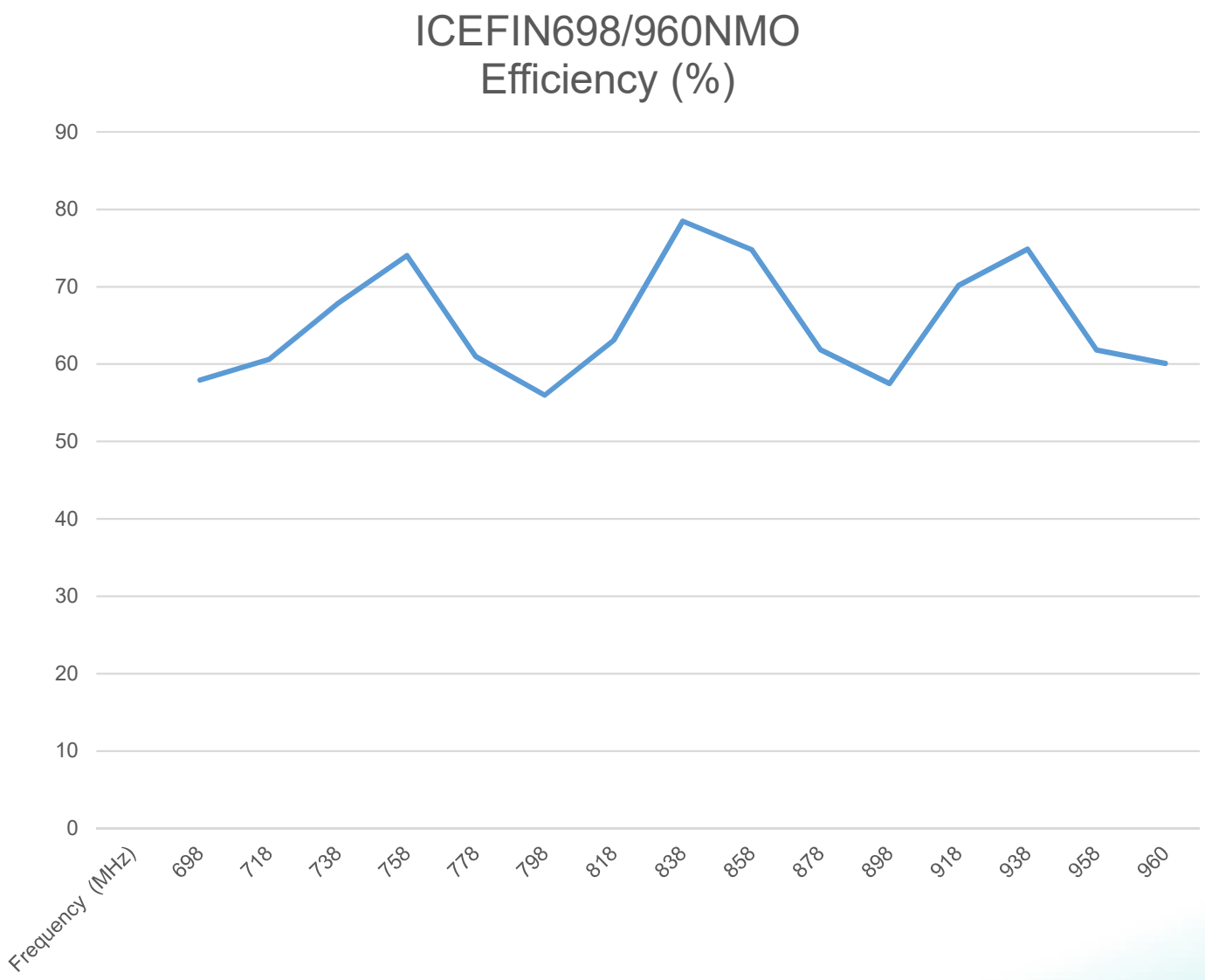

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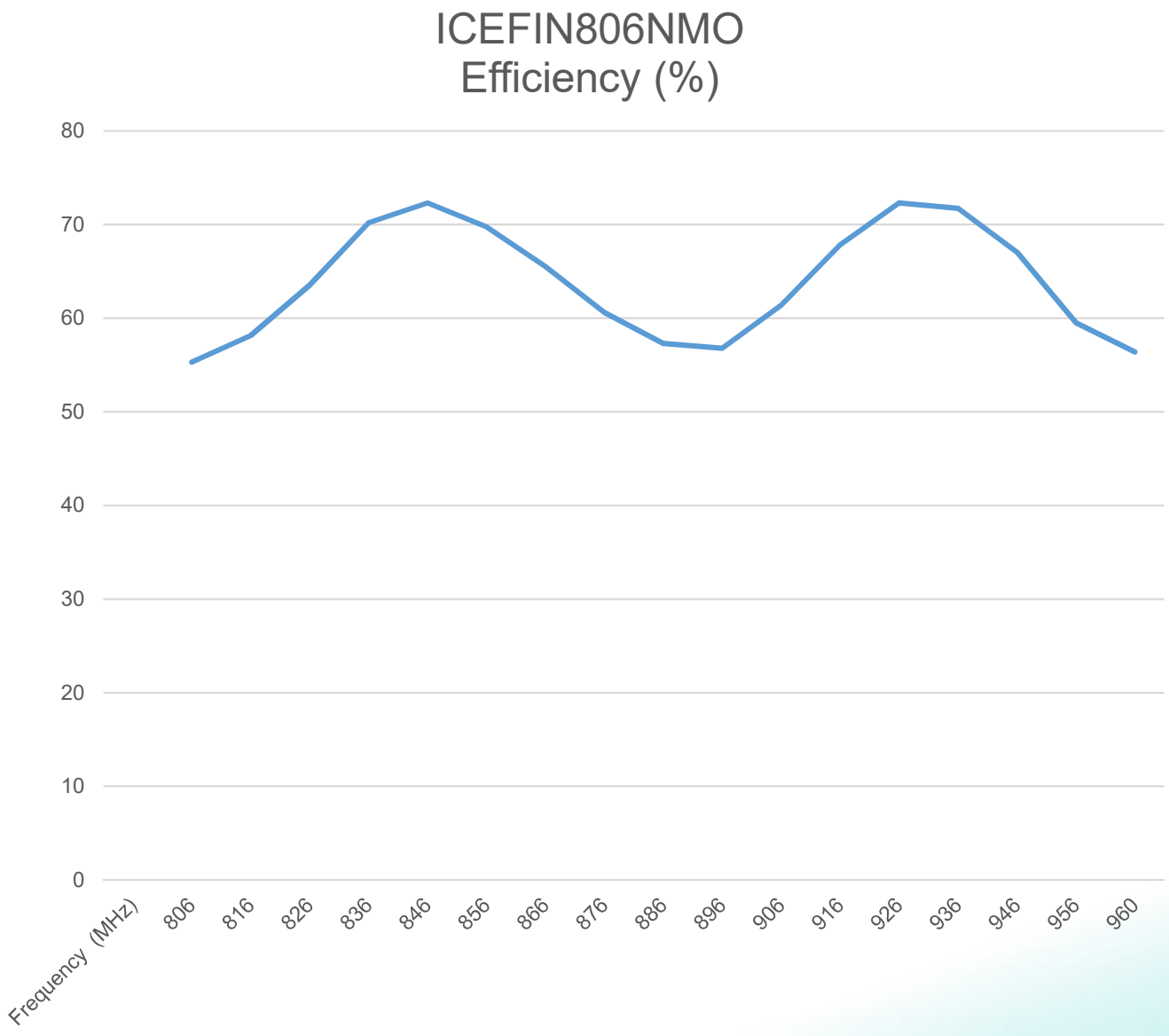
Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)



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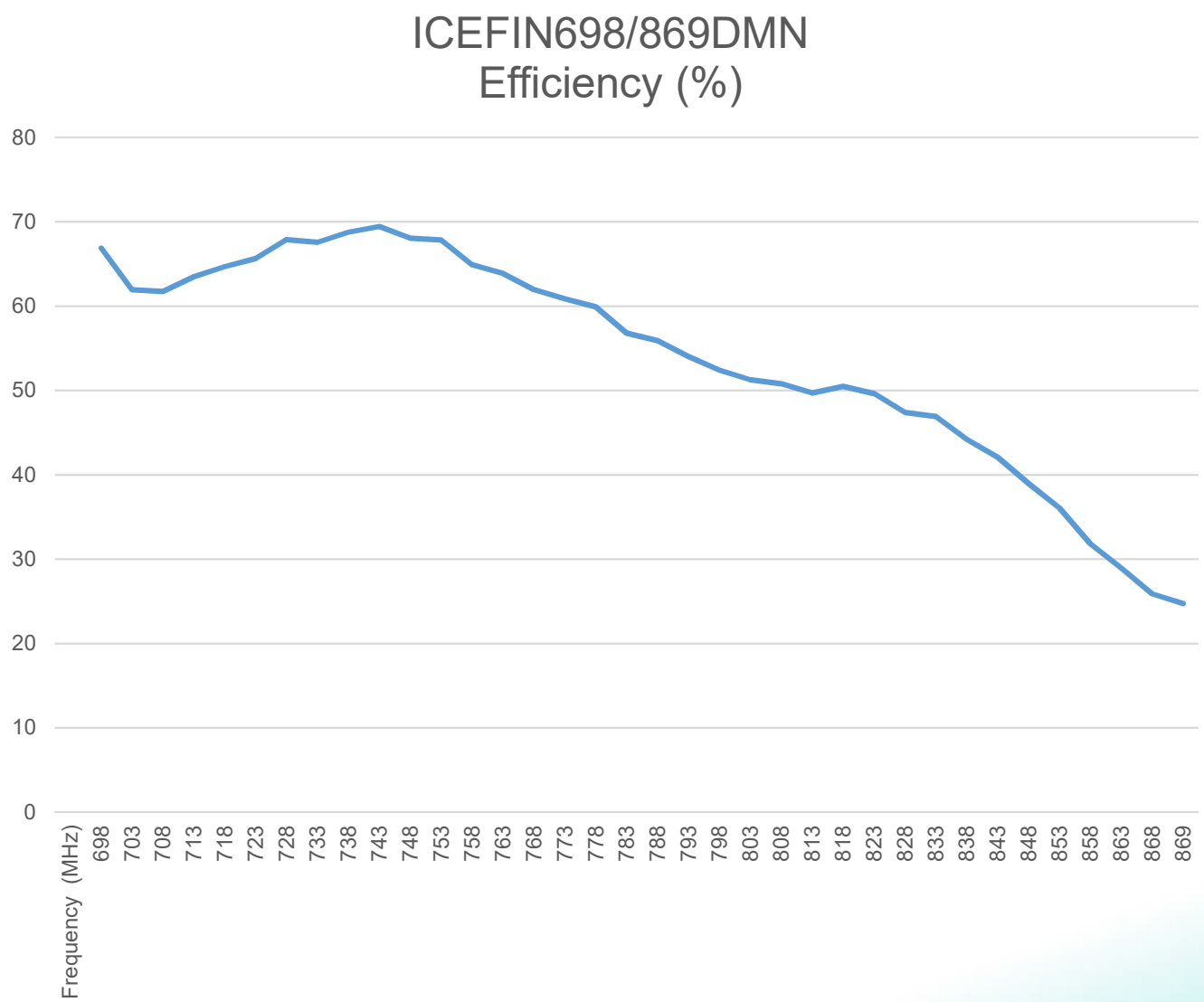

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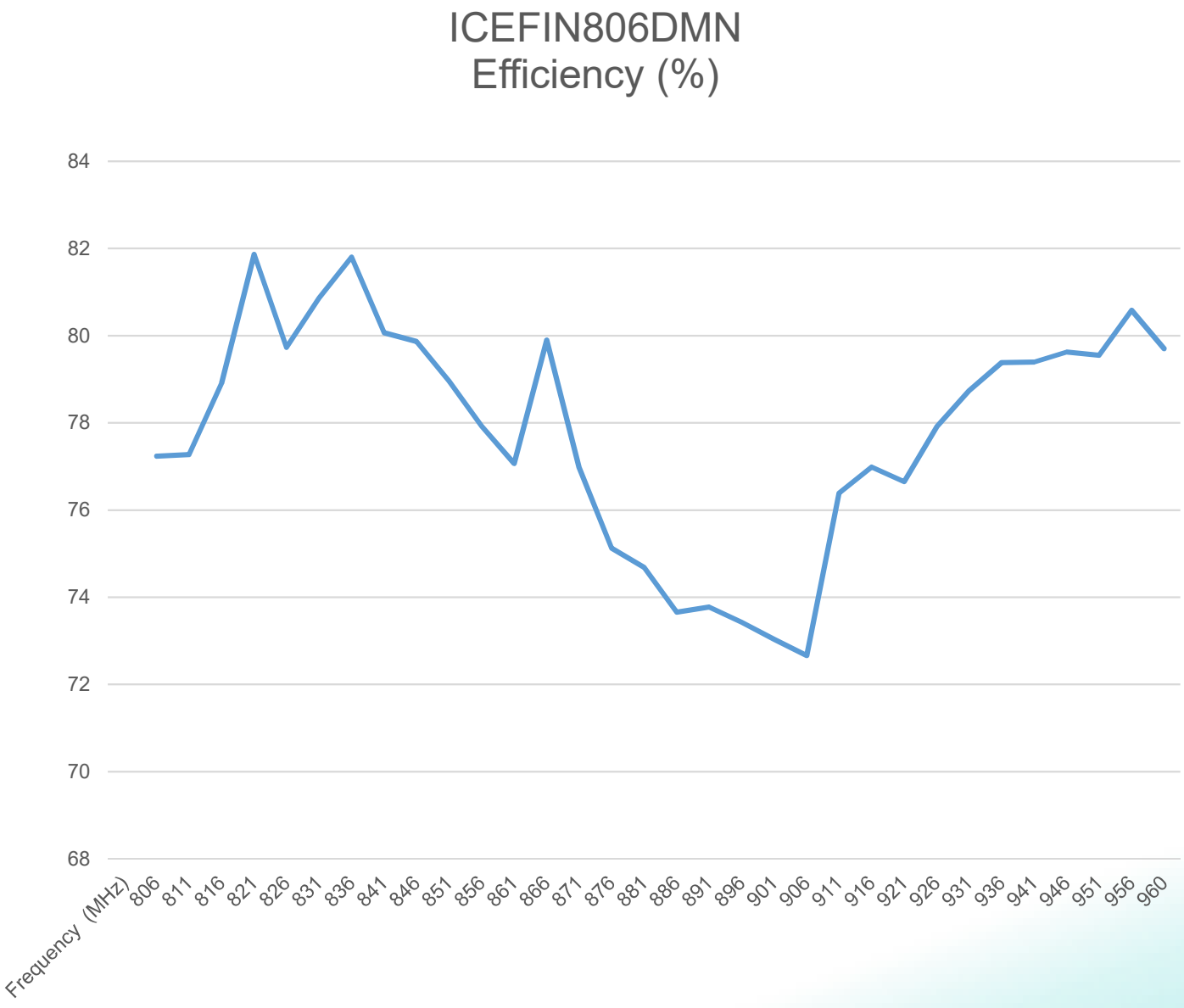

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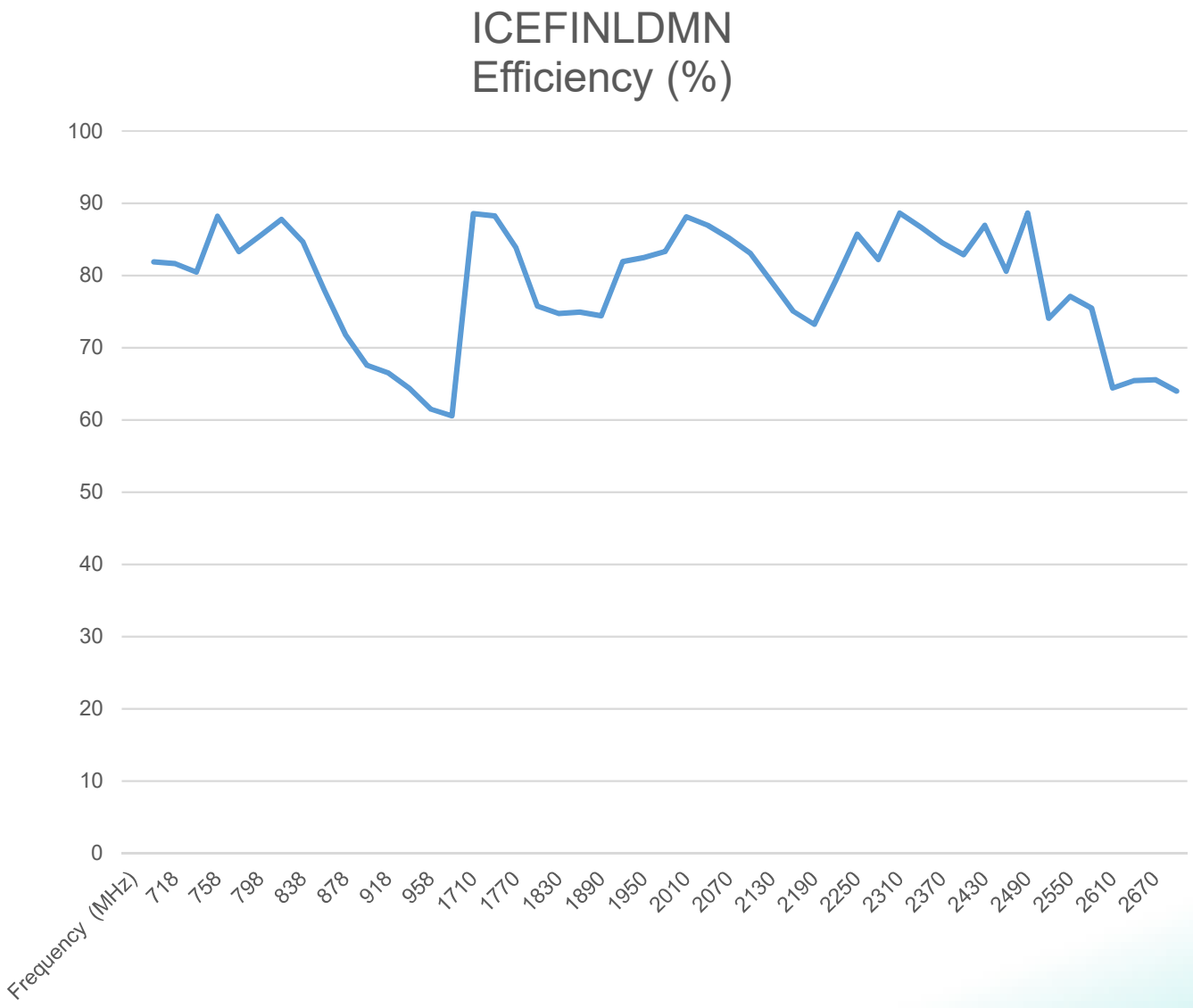

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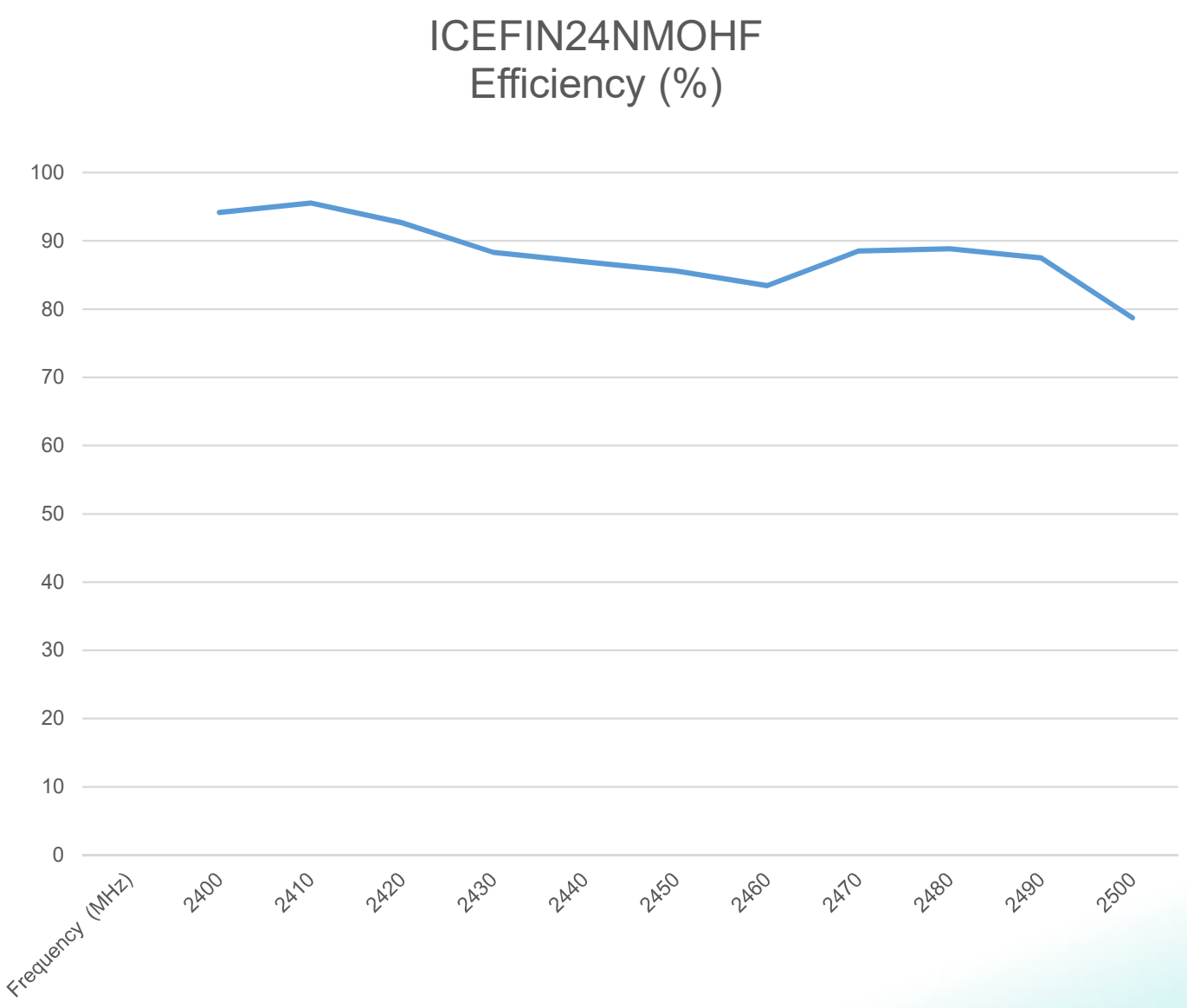

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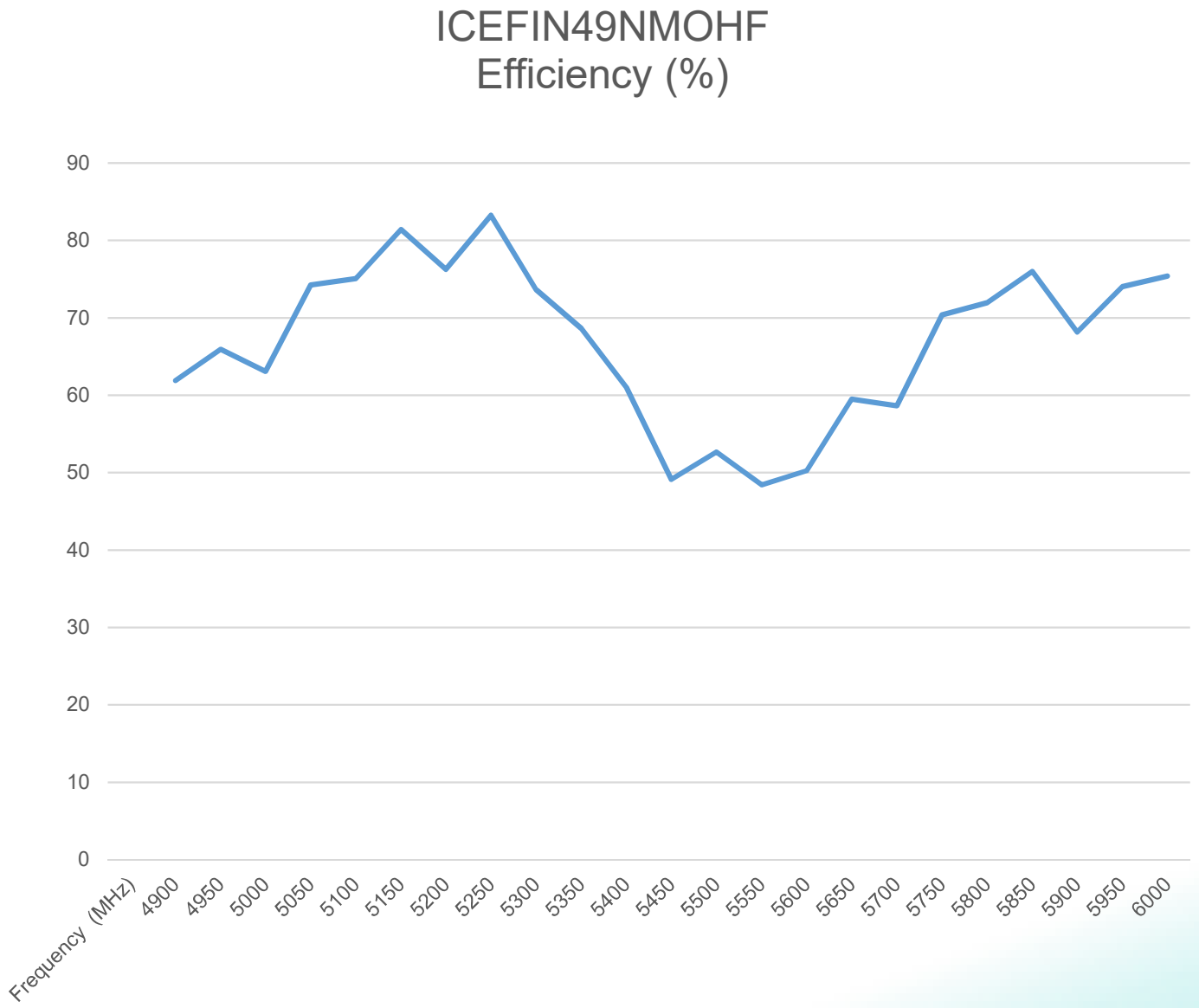

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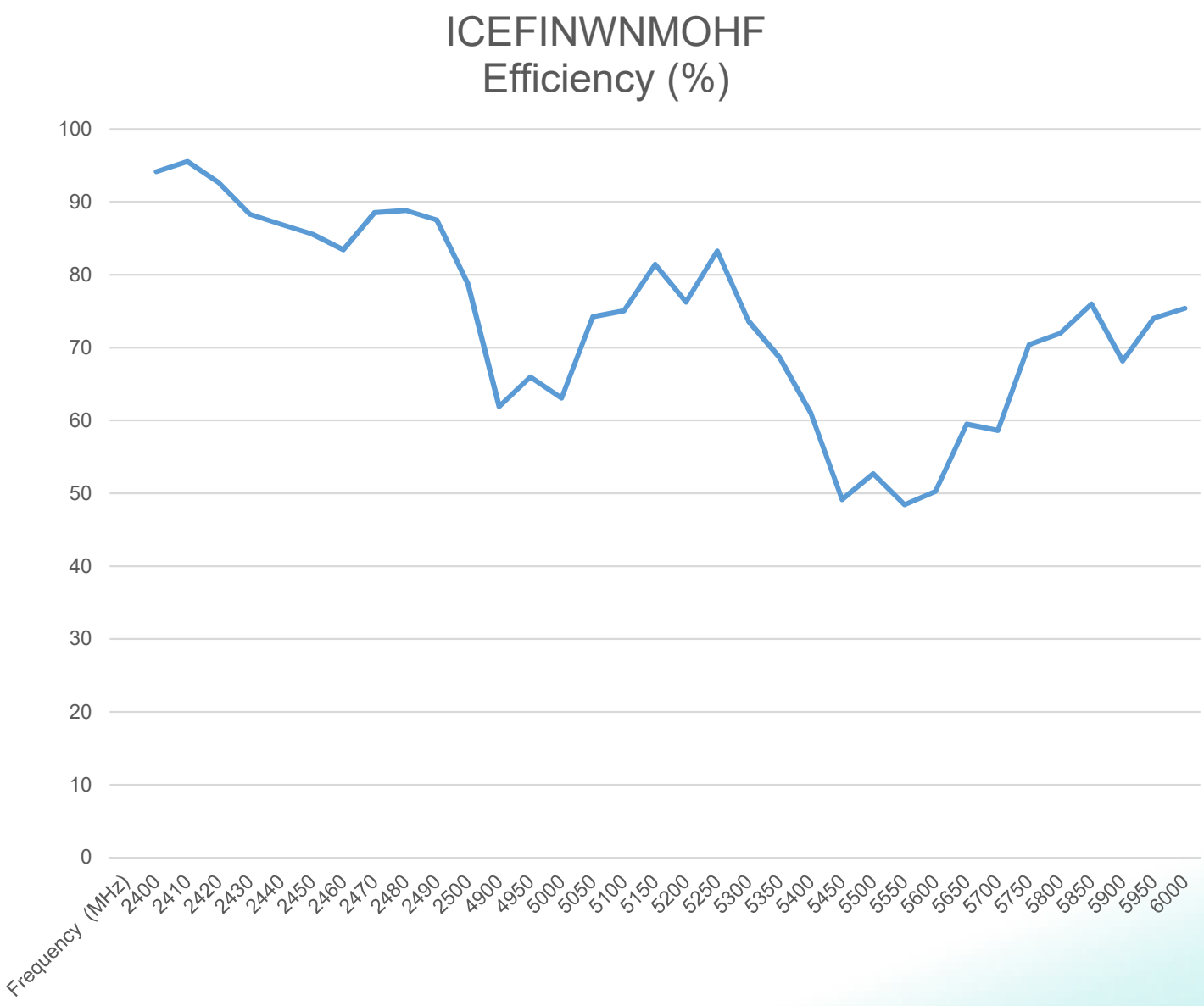

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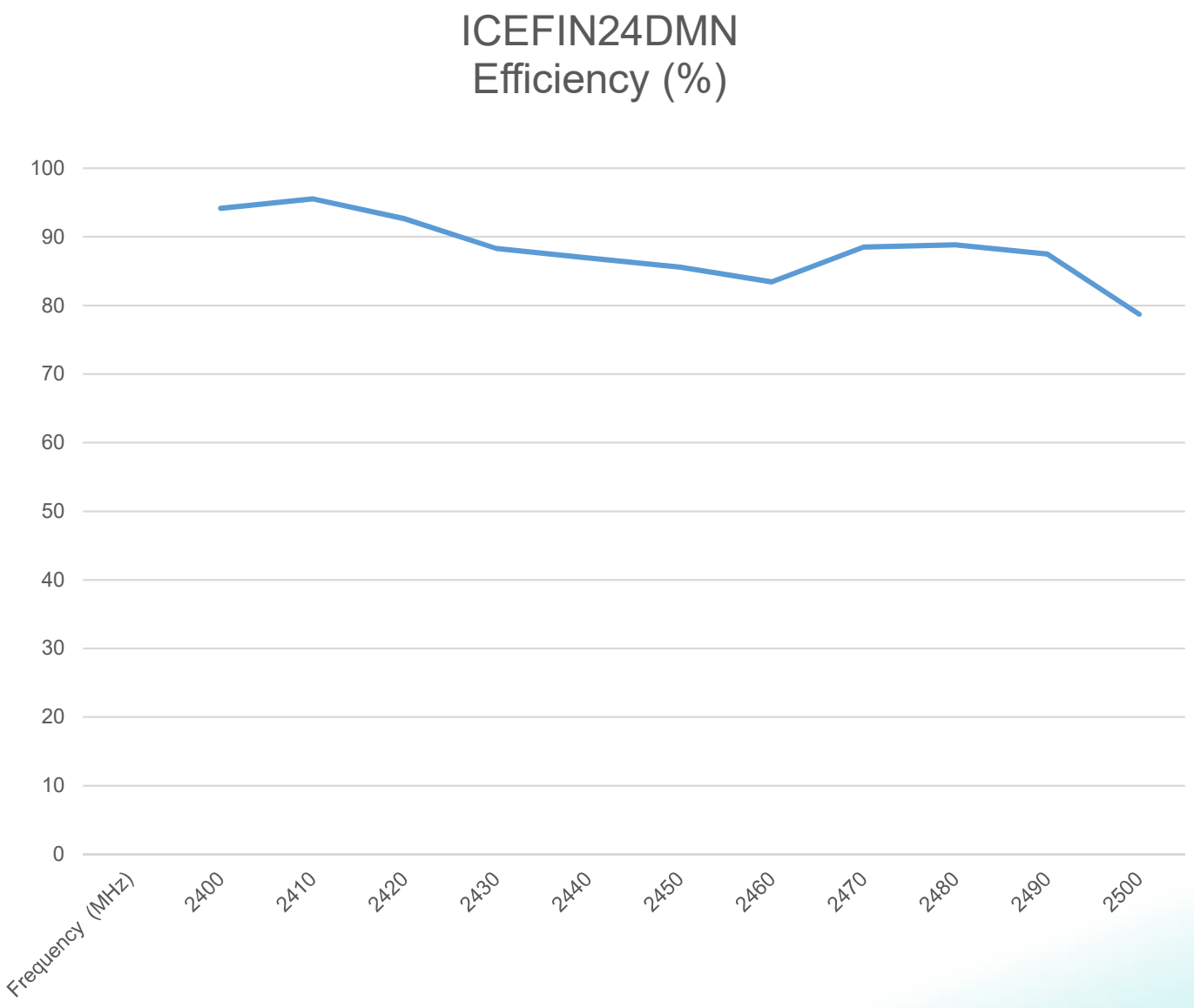

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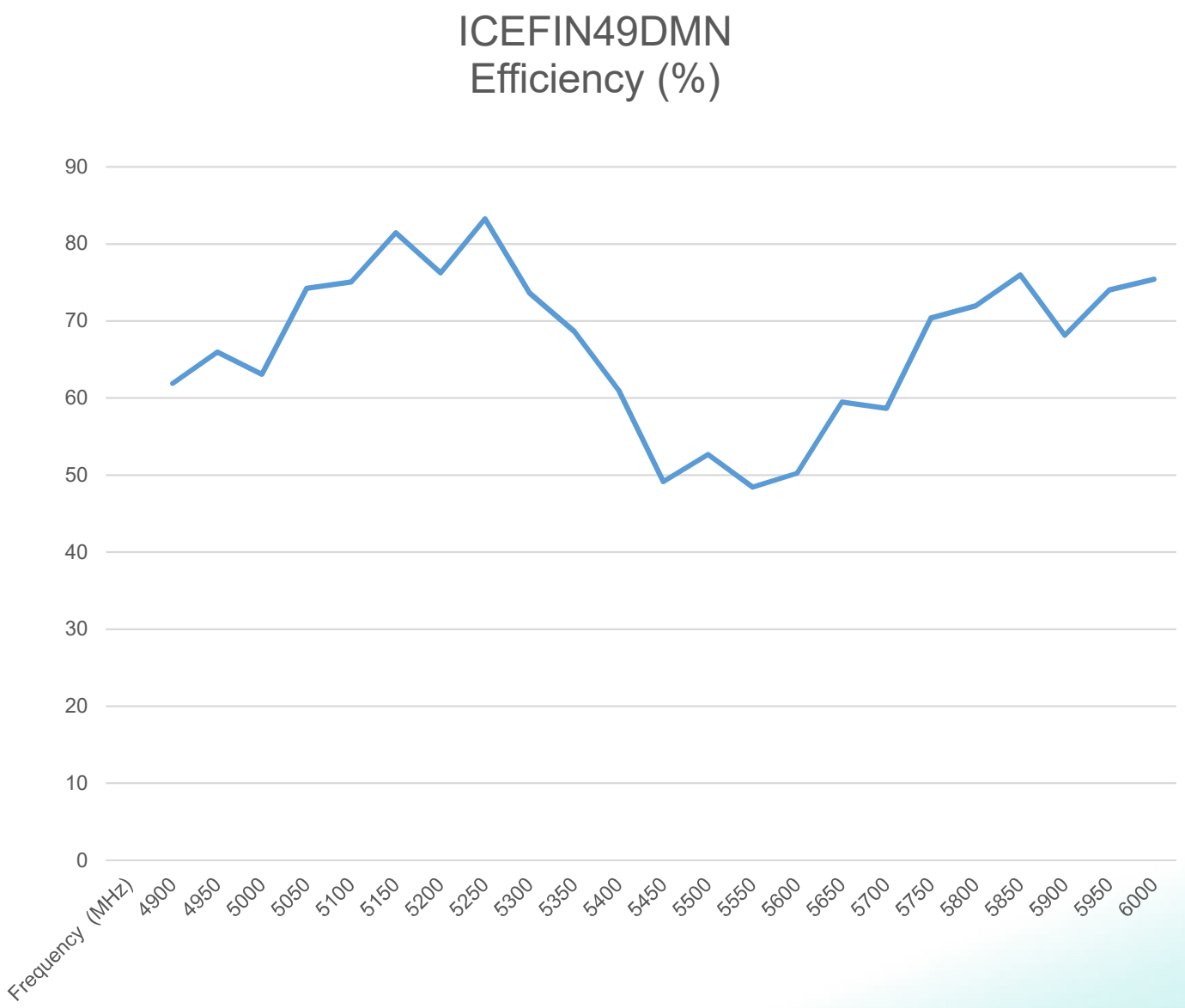

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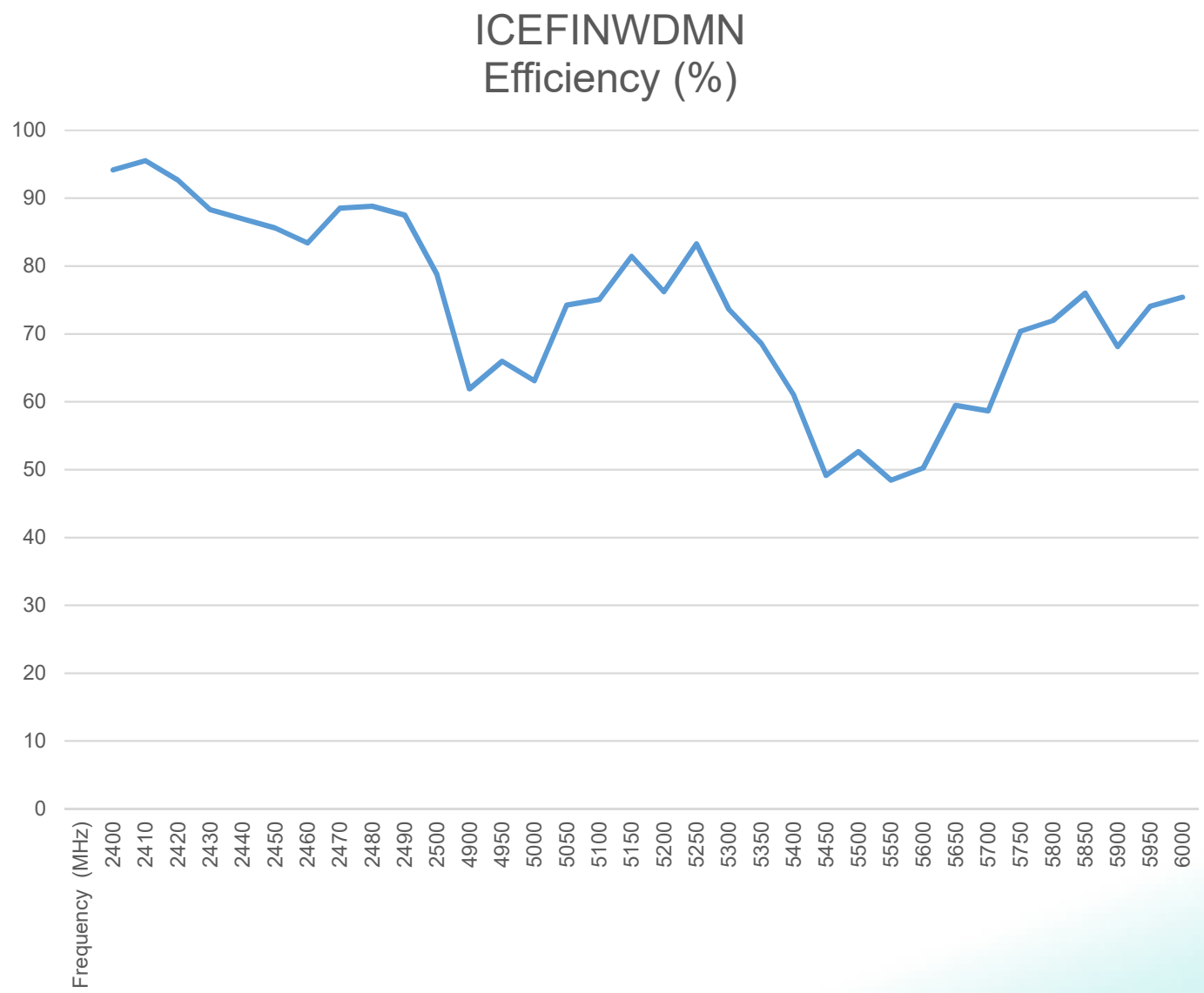

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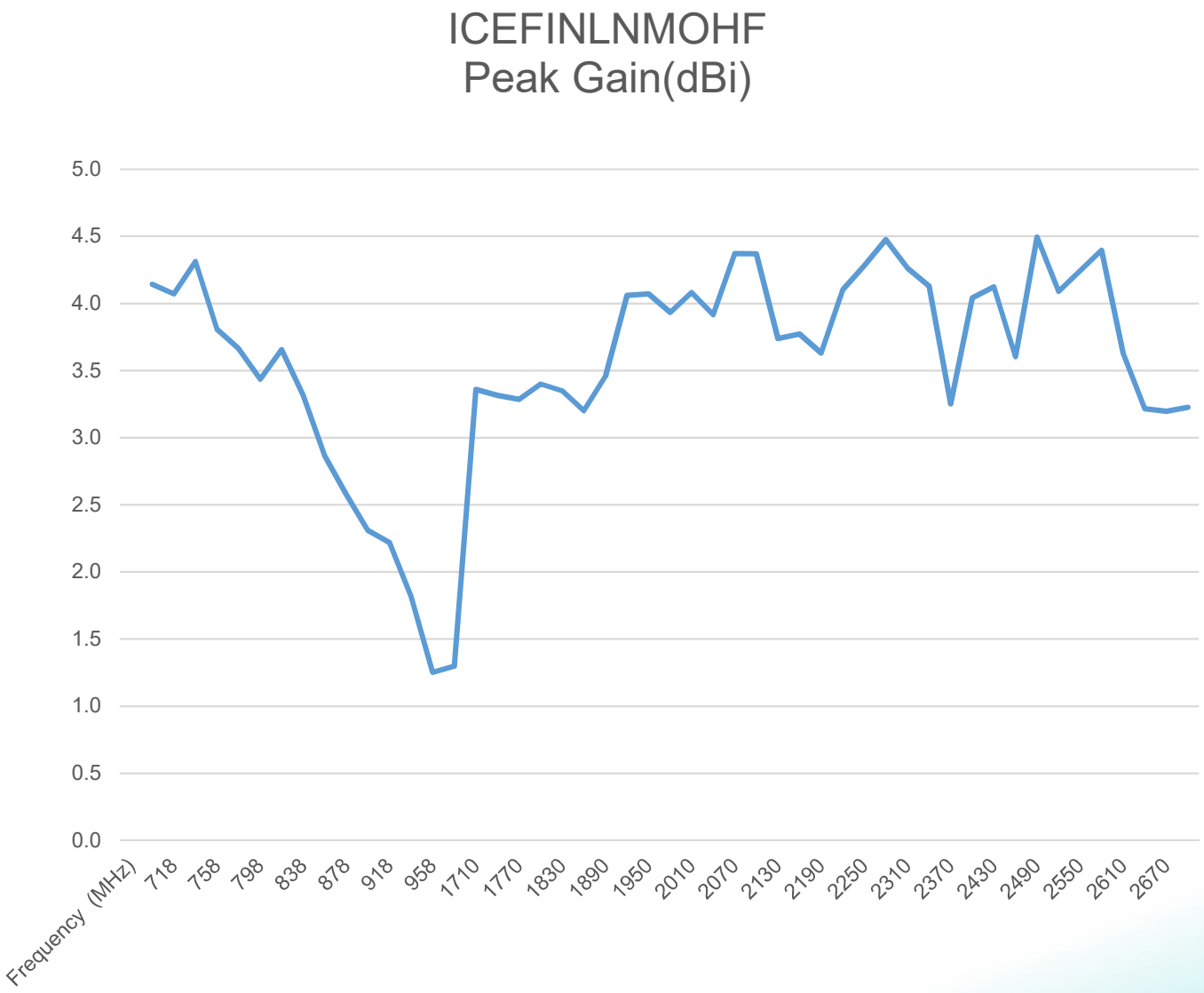
Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)



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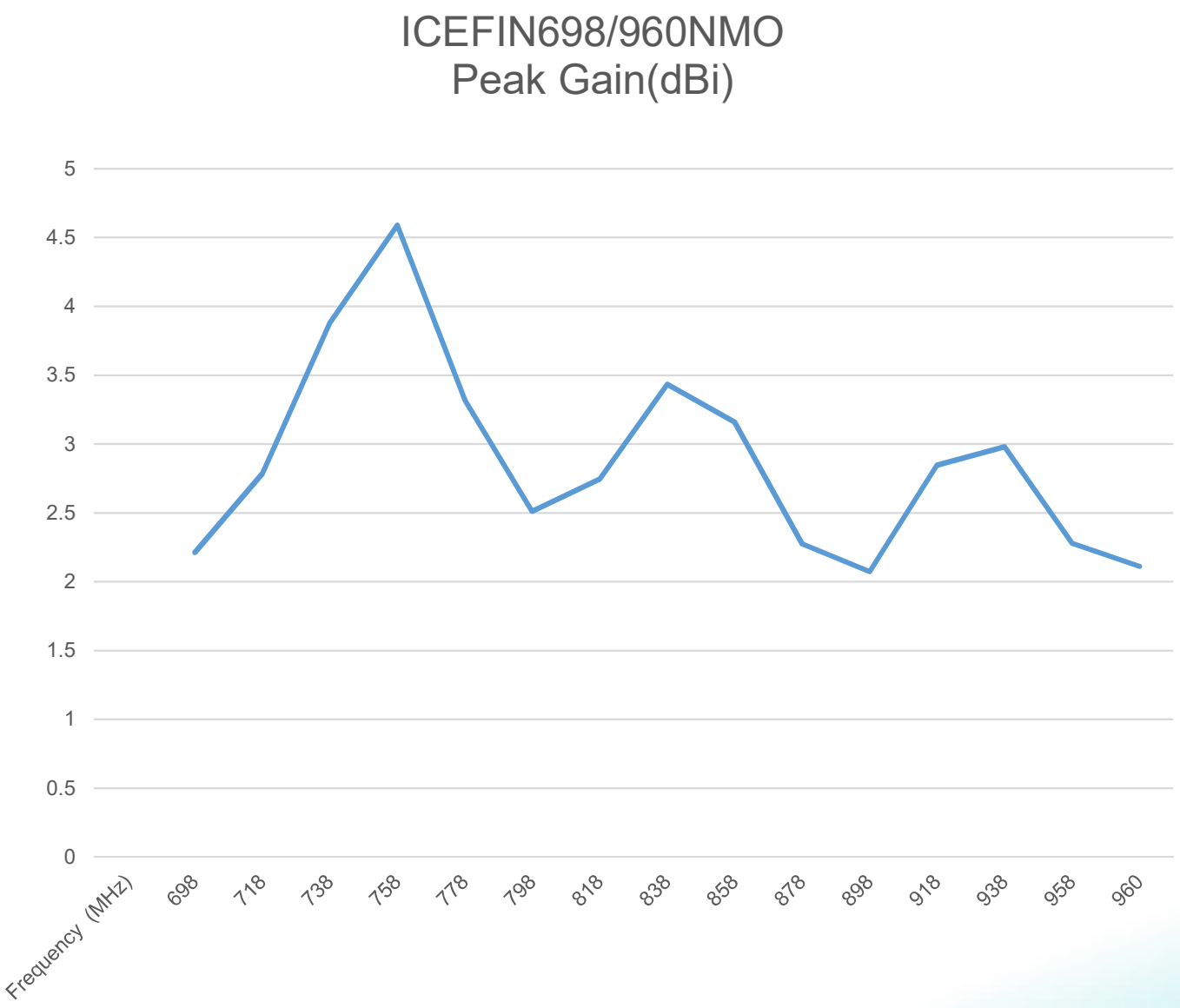

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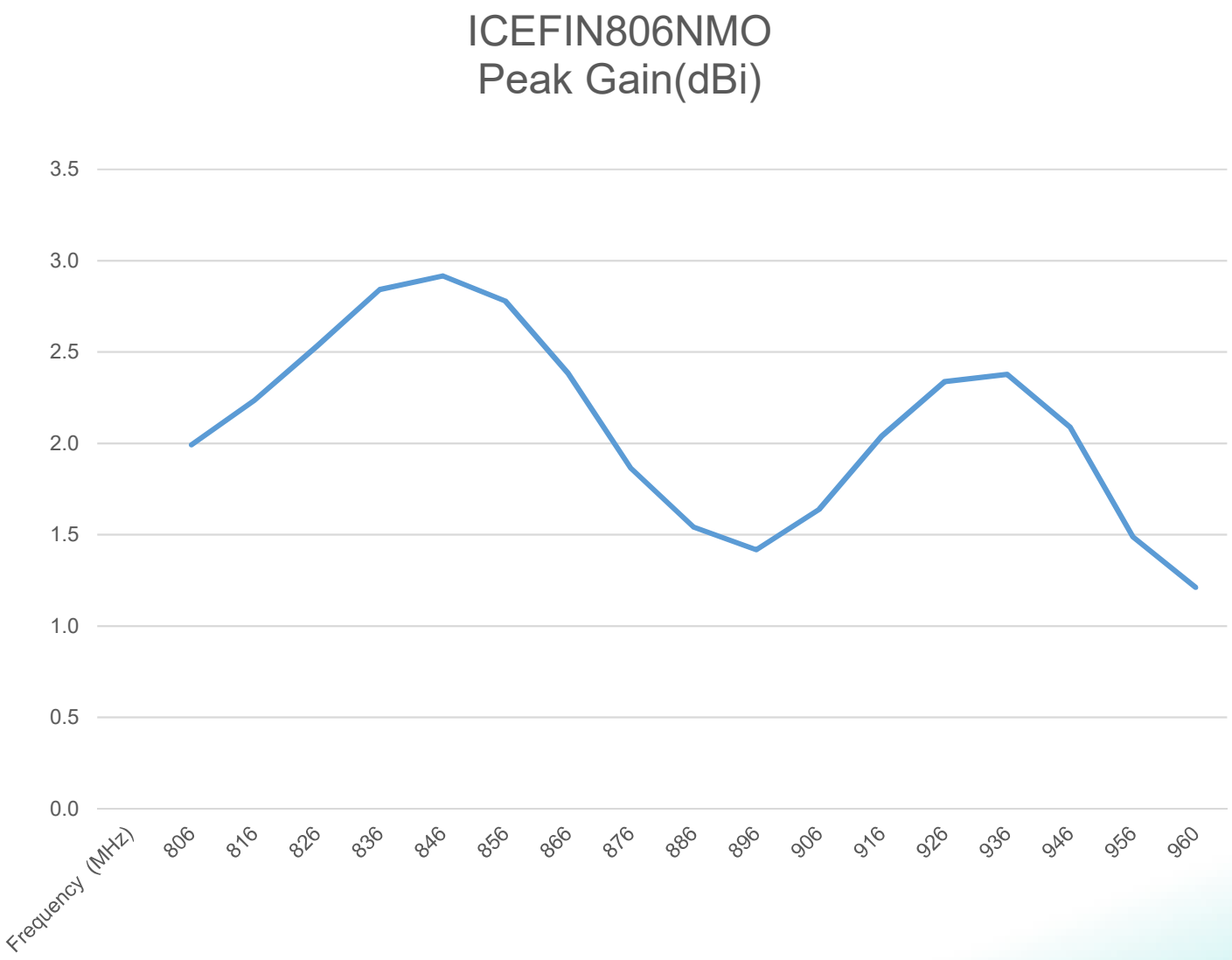

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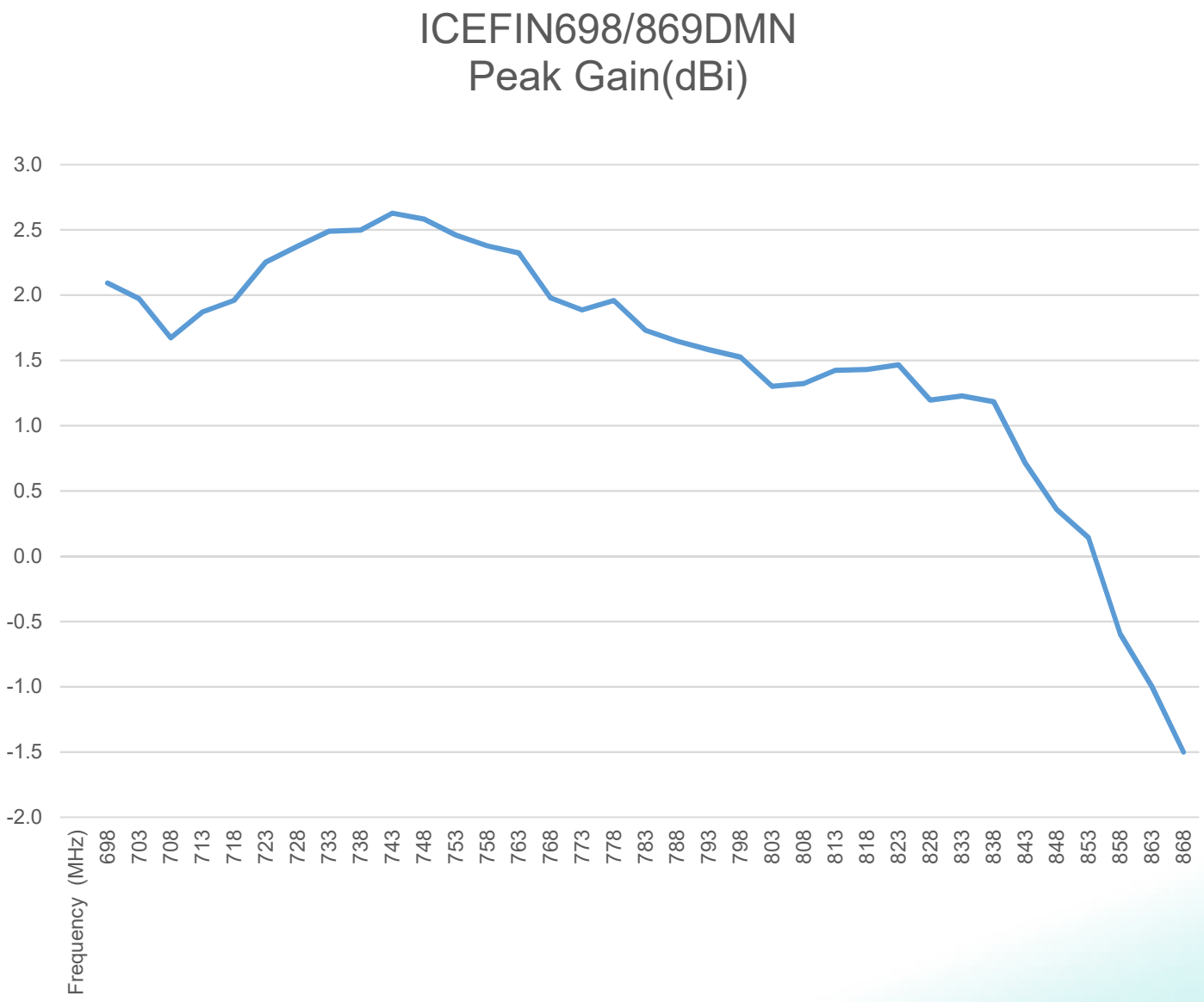

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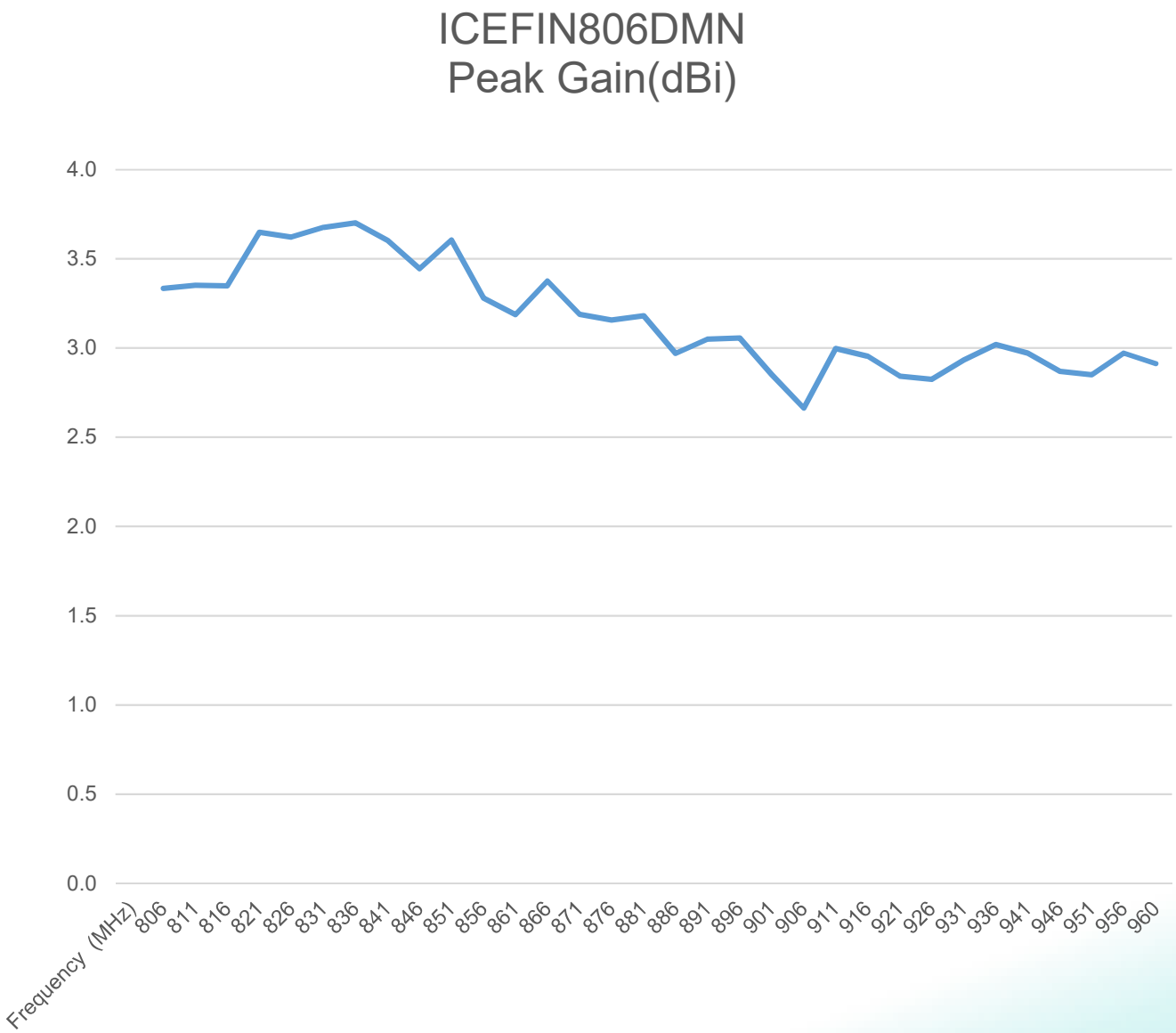

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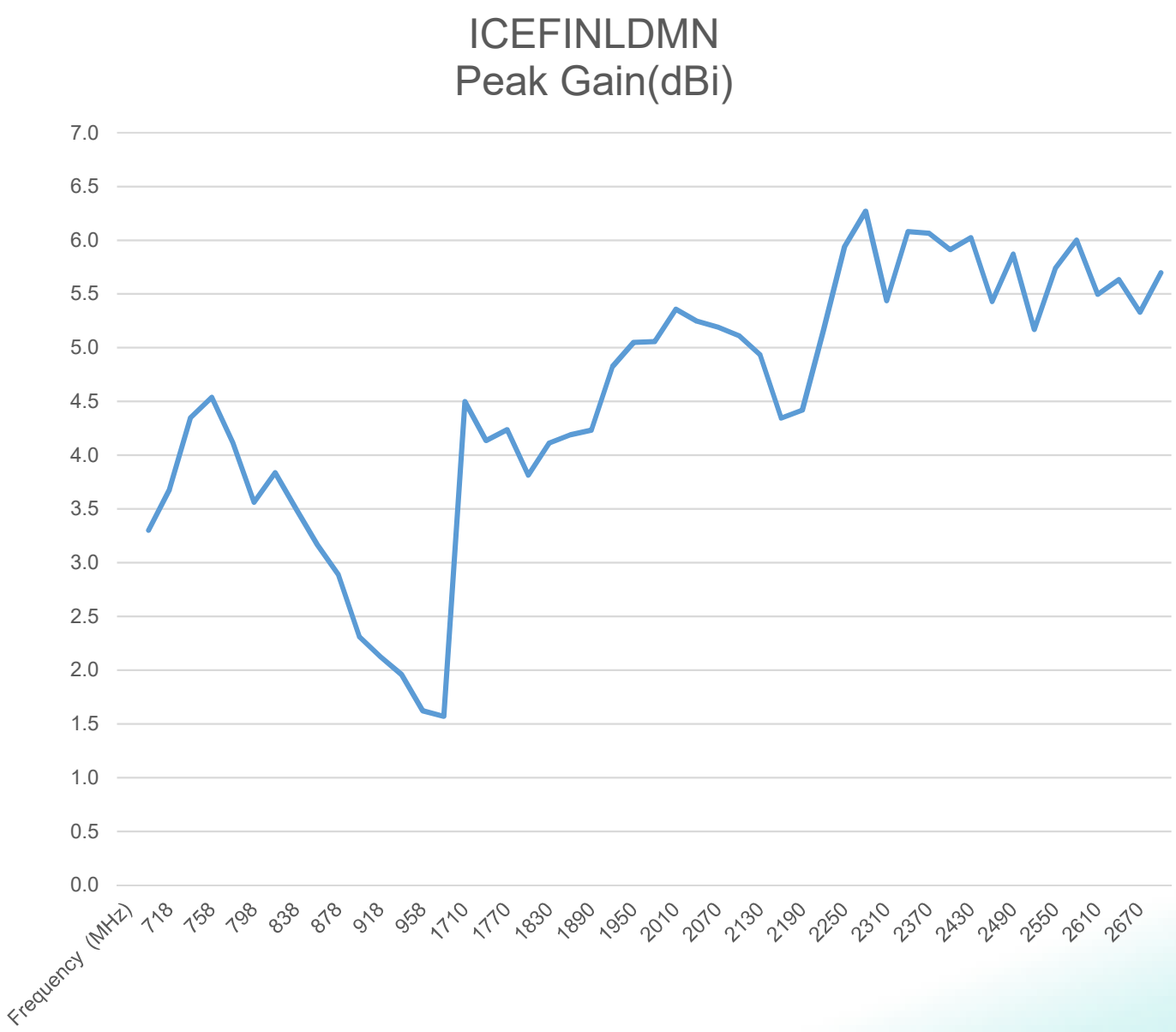

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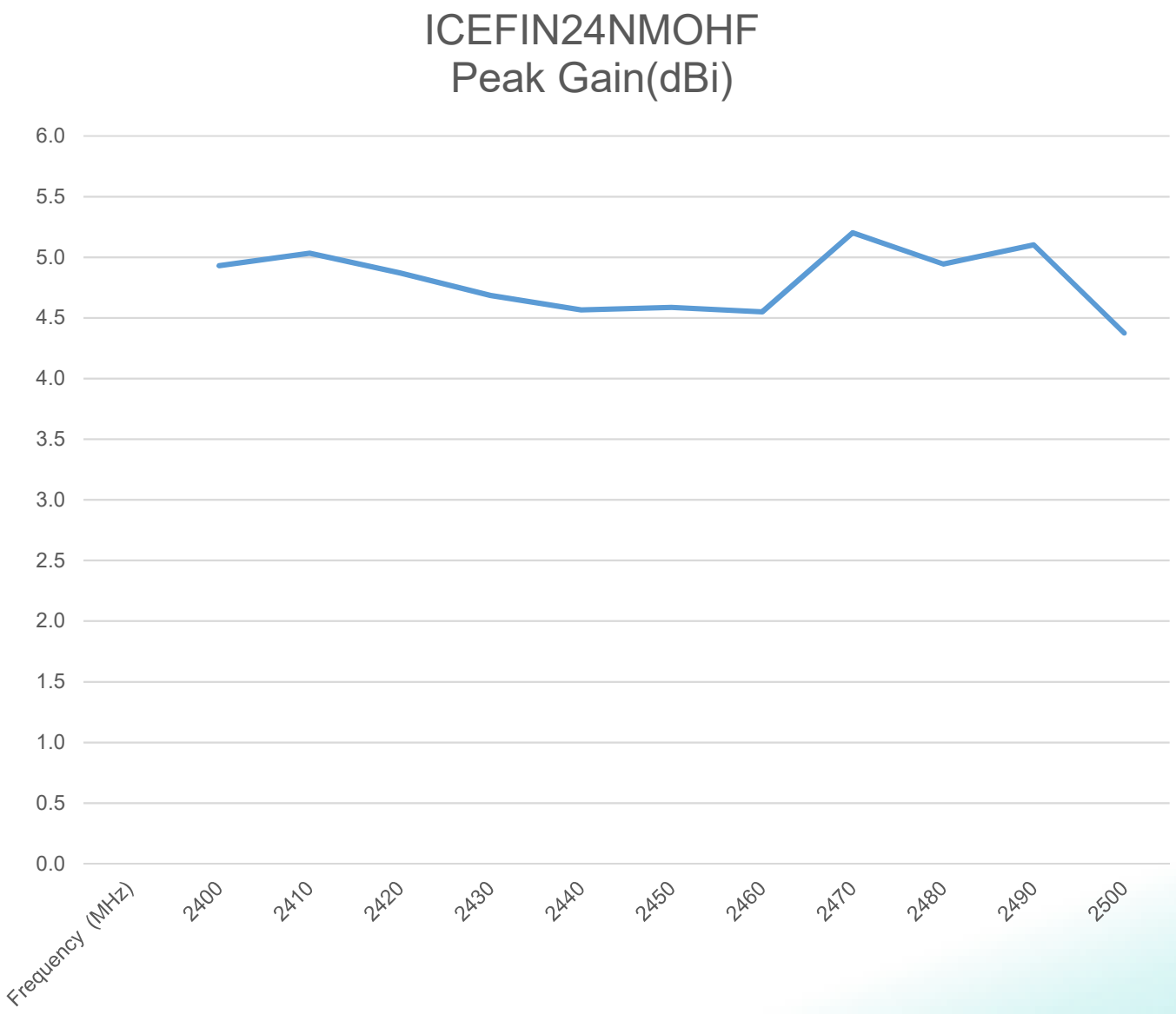

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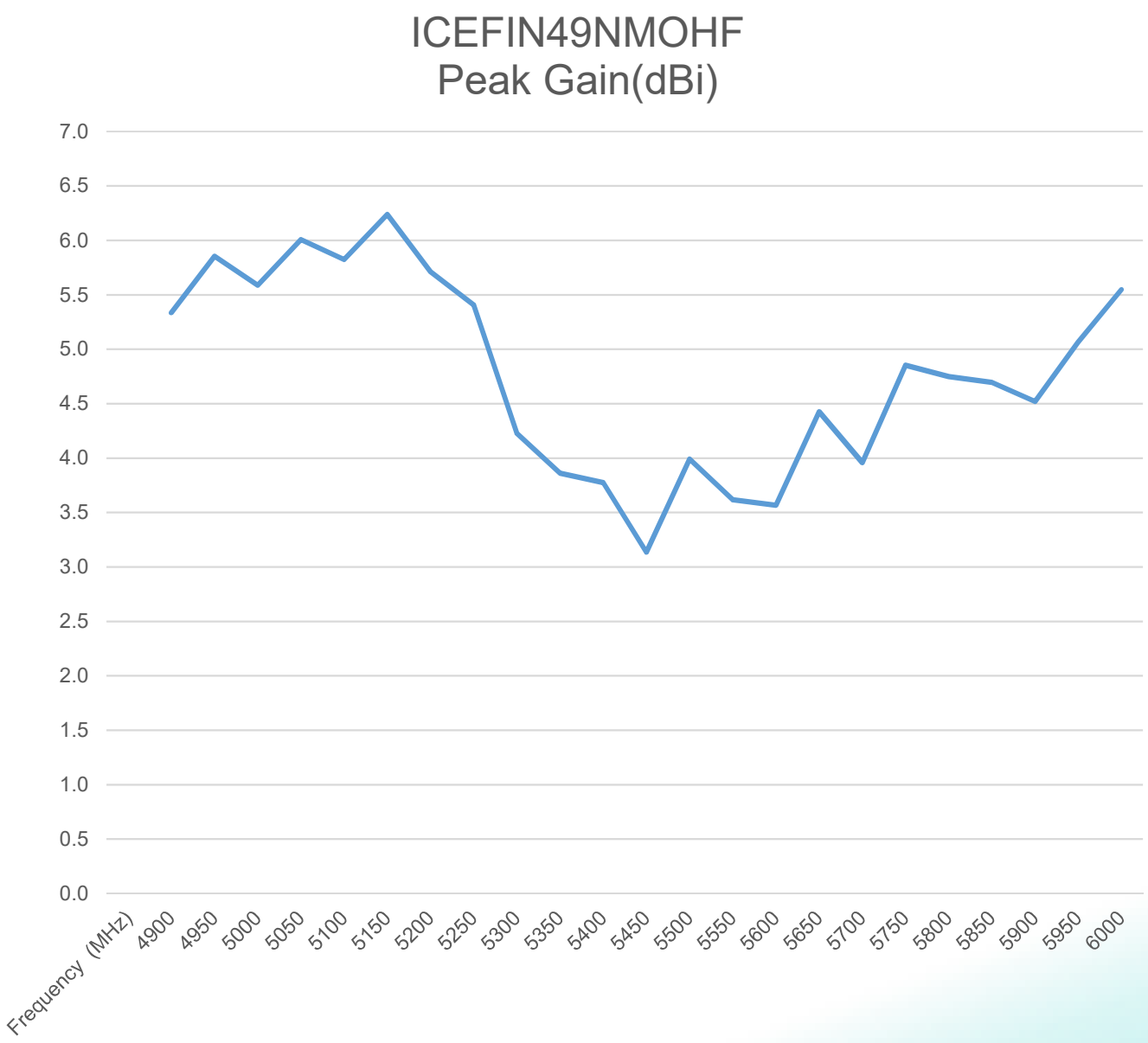

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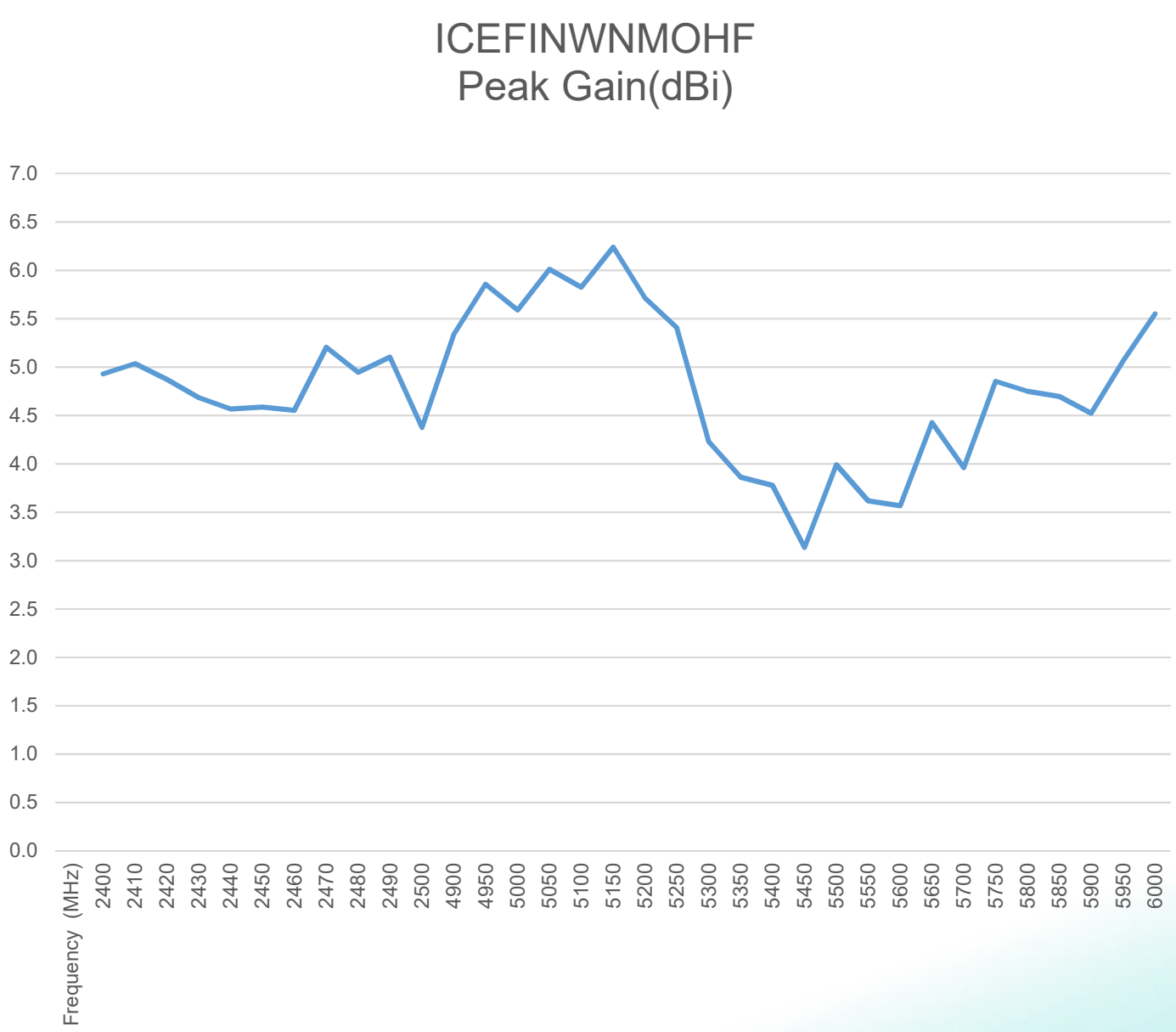

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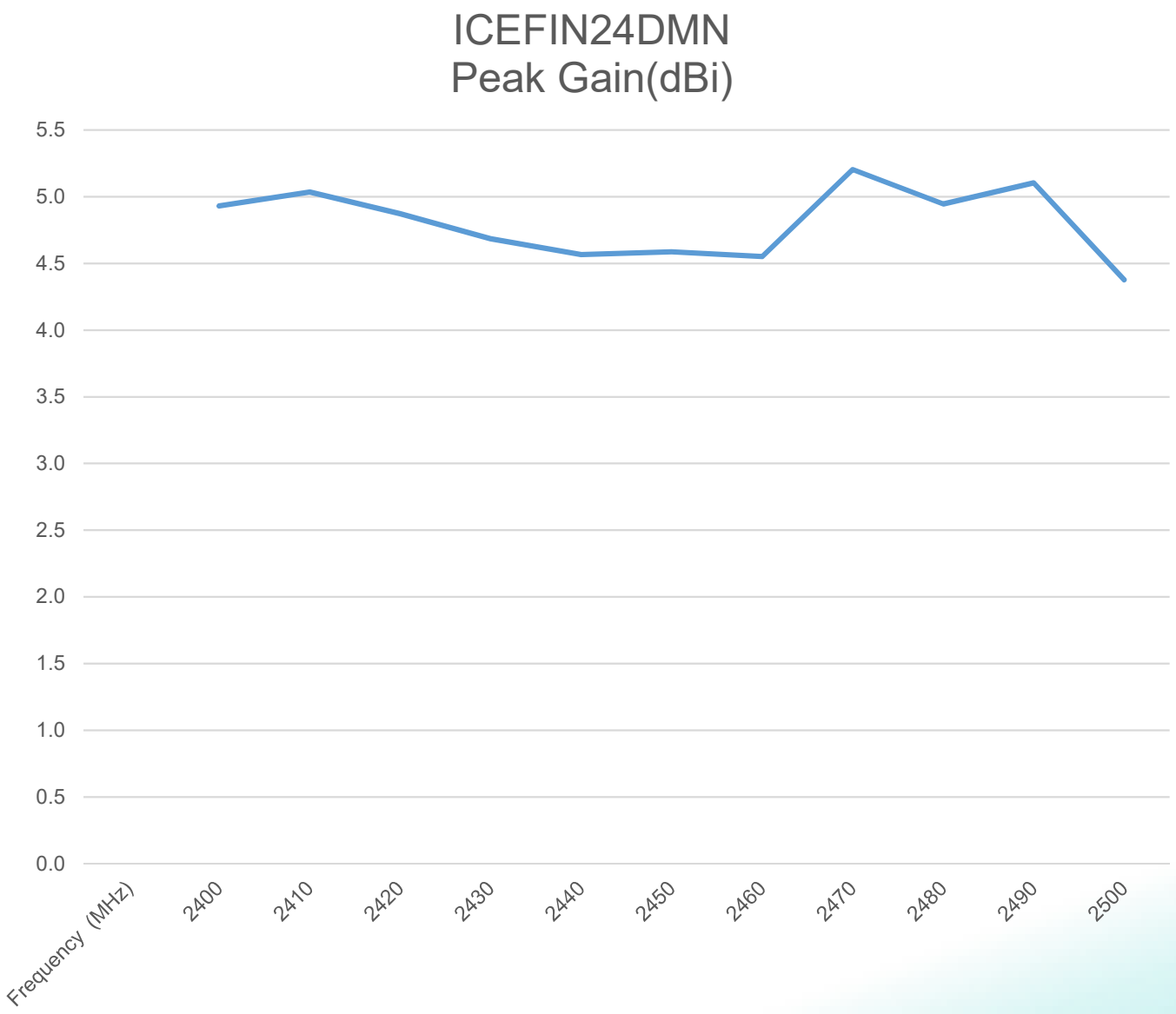

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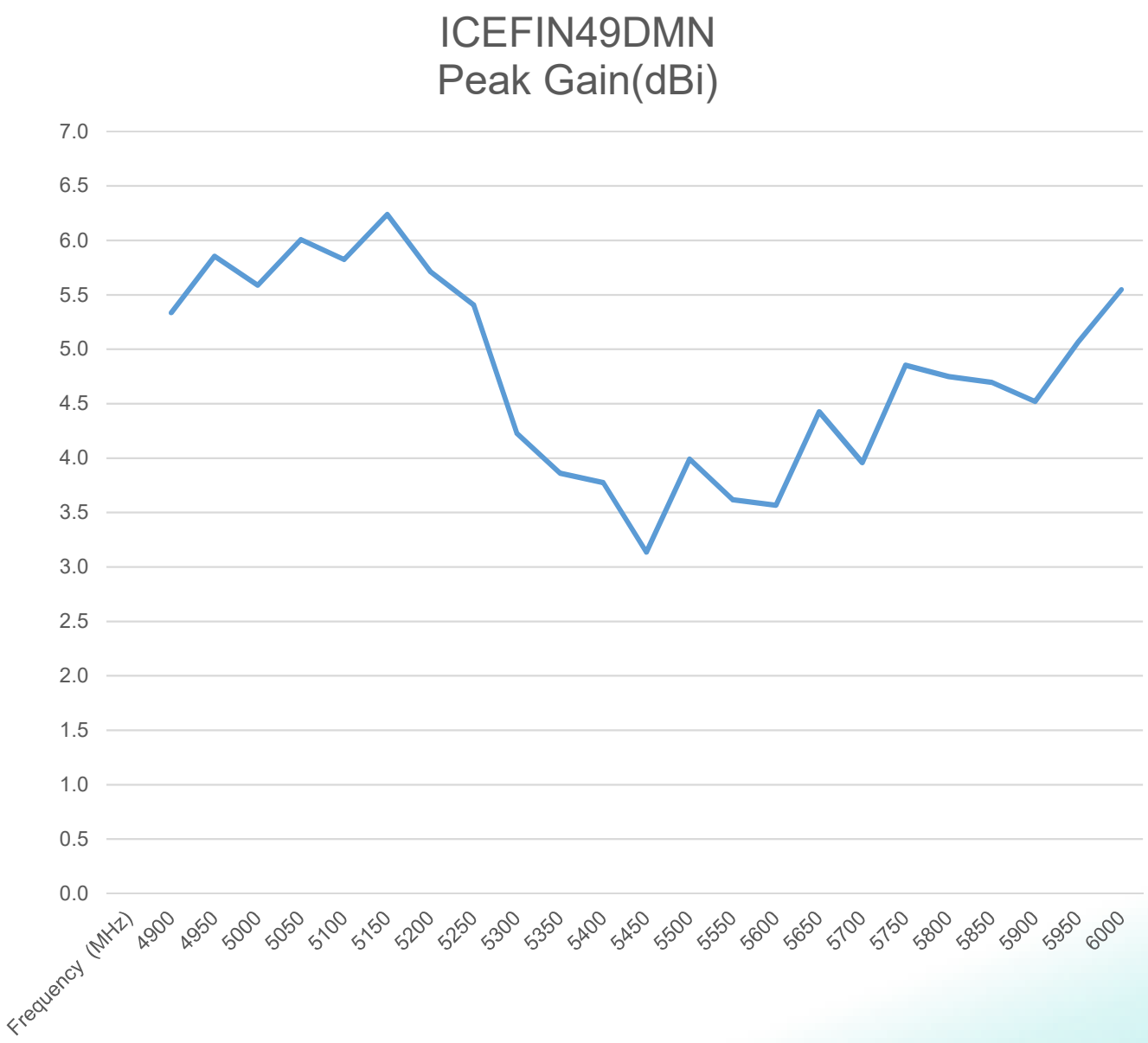

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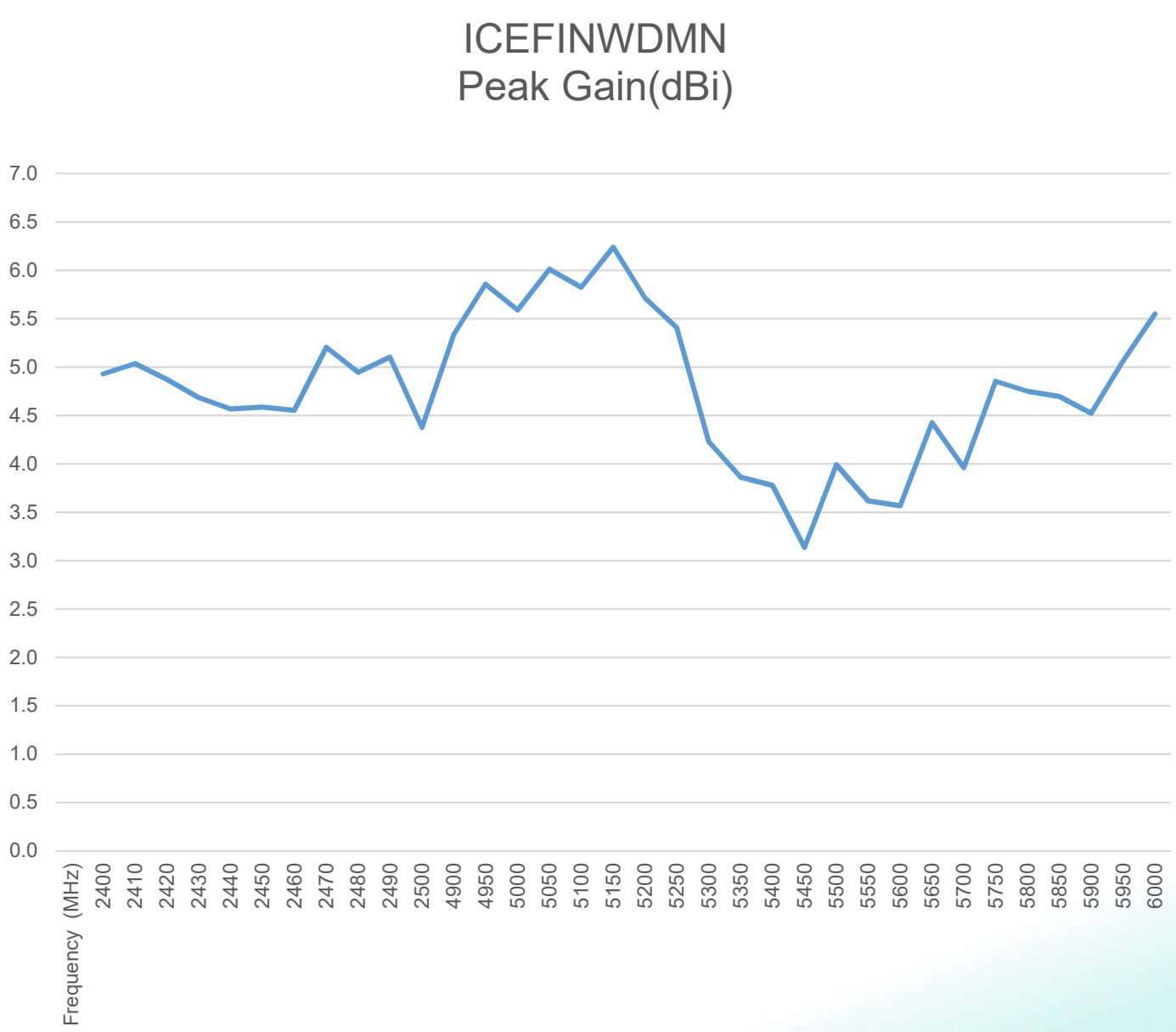

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

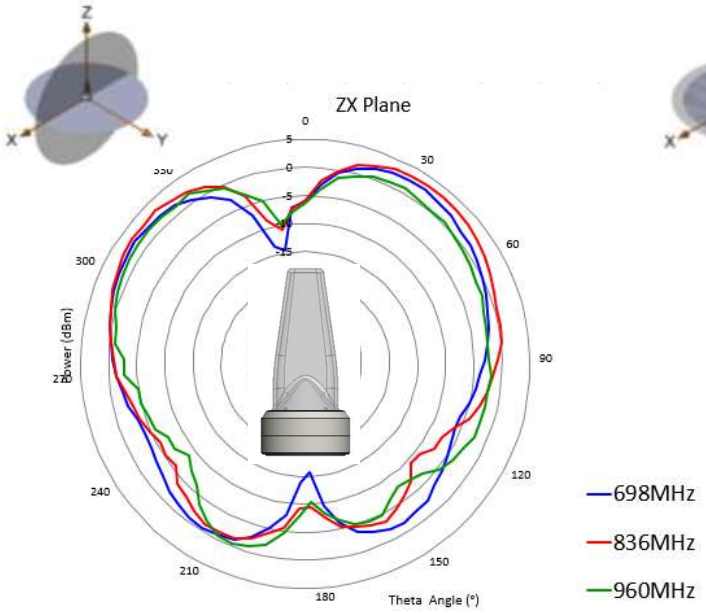
PART NUMBER: ICEFINXXX

CHARTS

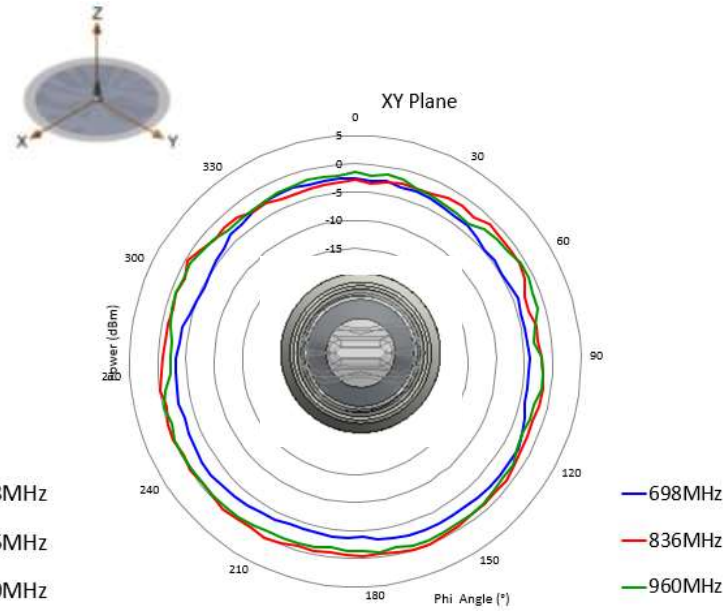
Free Space Radiation Pattern

ICEFINLNMOHF

Elevation Plane



Horizontal Plane



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ICEFINLNMOHF

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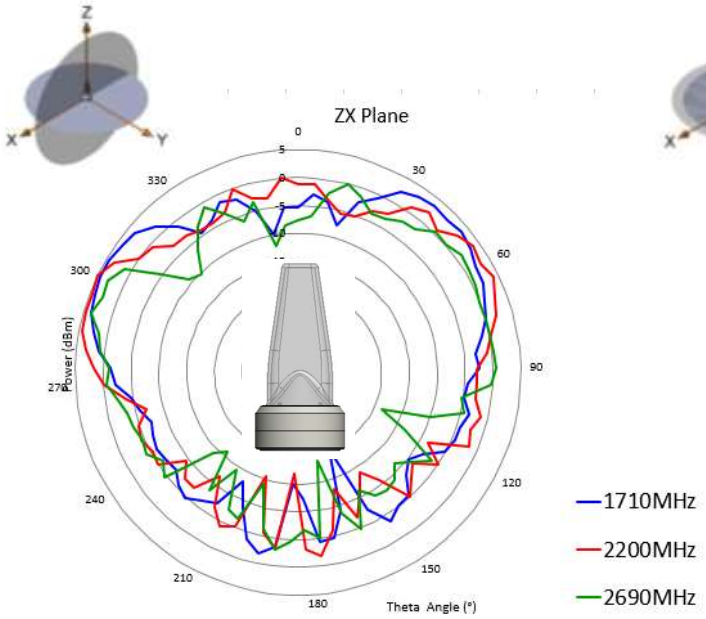
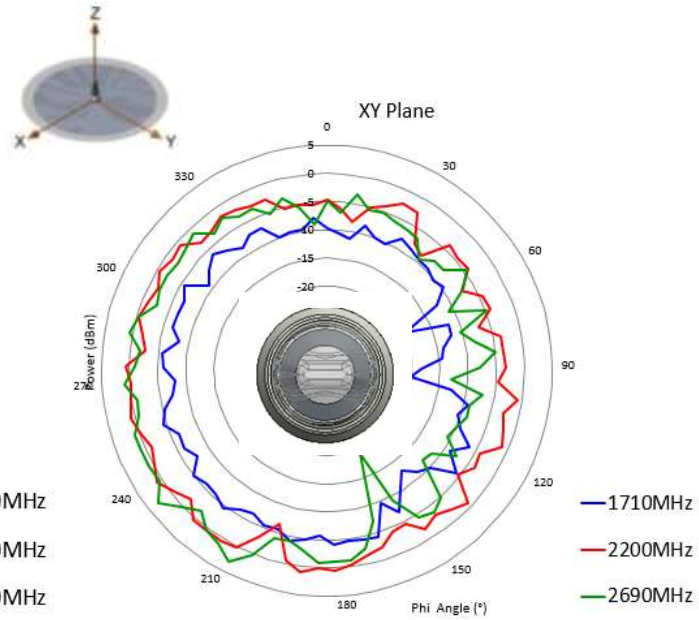


Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

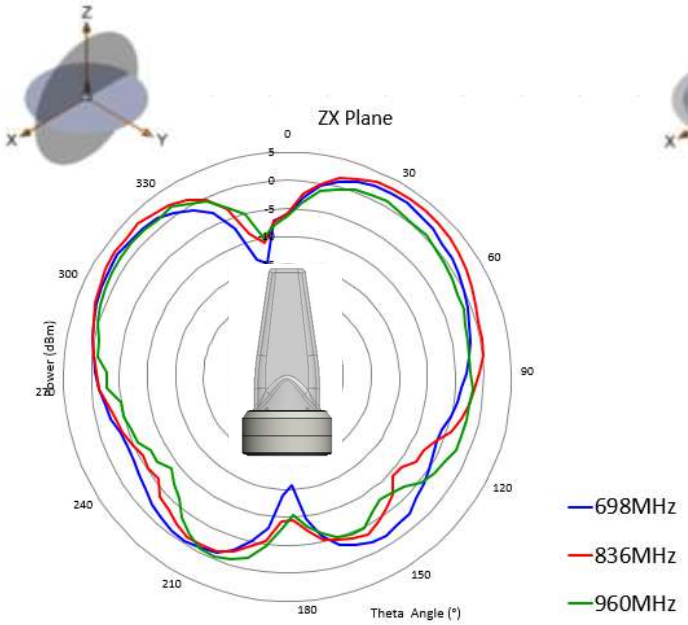
PART NUMBER: ICEFINXXX

CHARTS

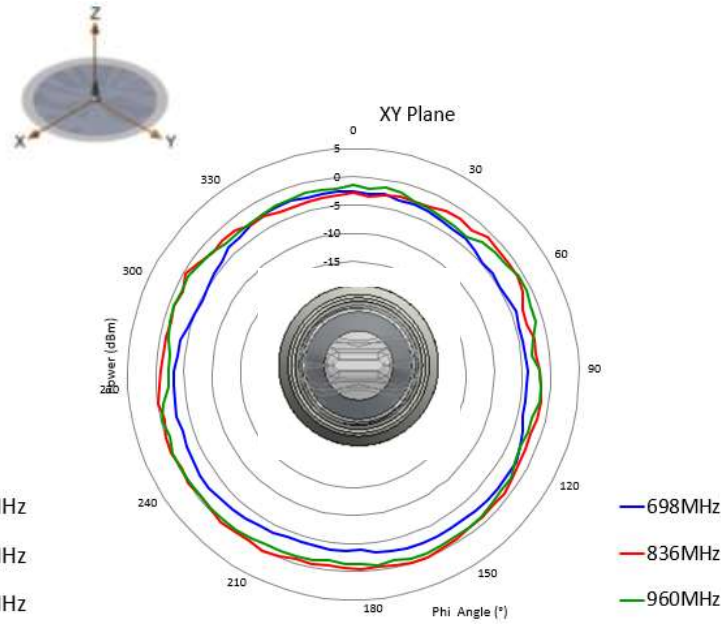
Free Space Radiation Pattern

ICEFIN698/960NMO

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

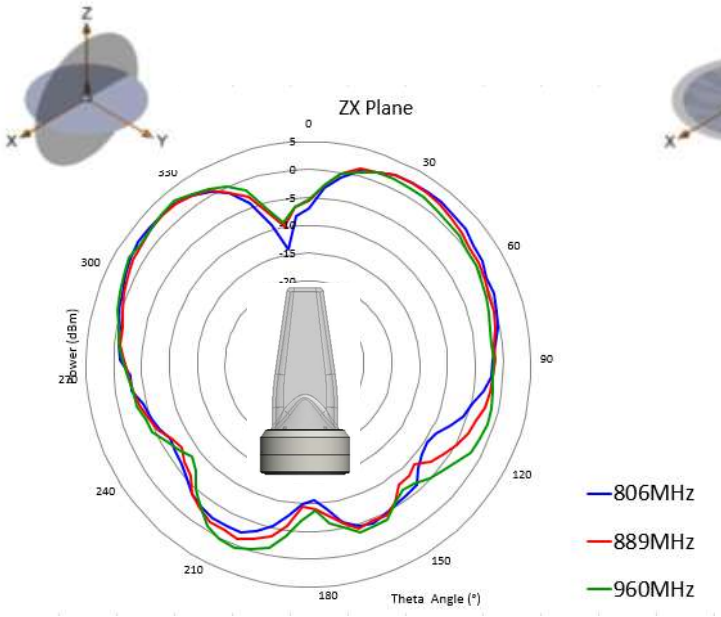
PART NUMBER: ICEFINXXX

CHARTS

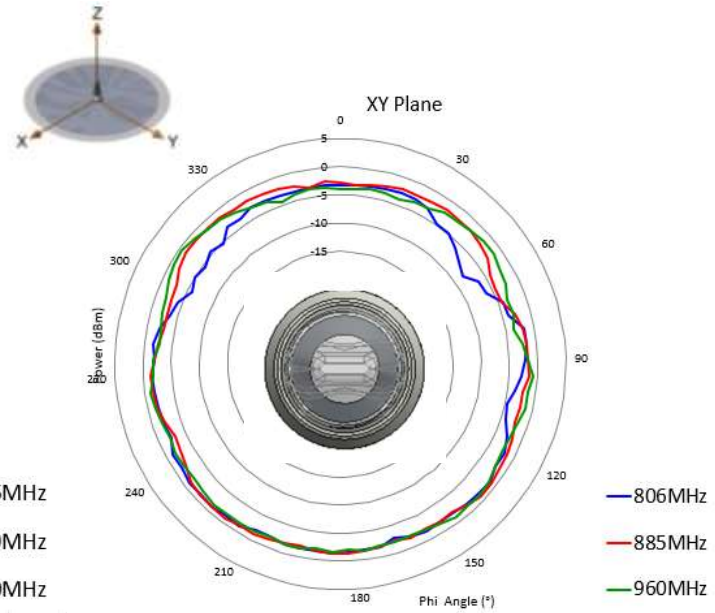
Free Space Radiation Pattern

ICEFIN806NMO

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

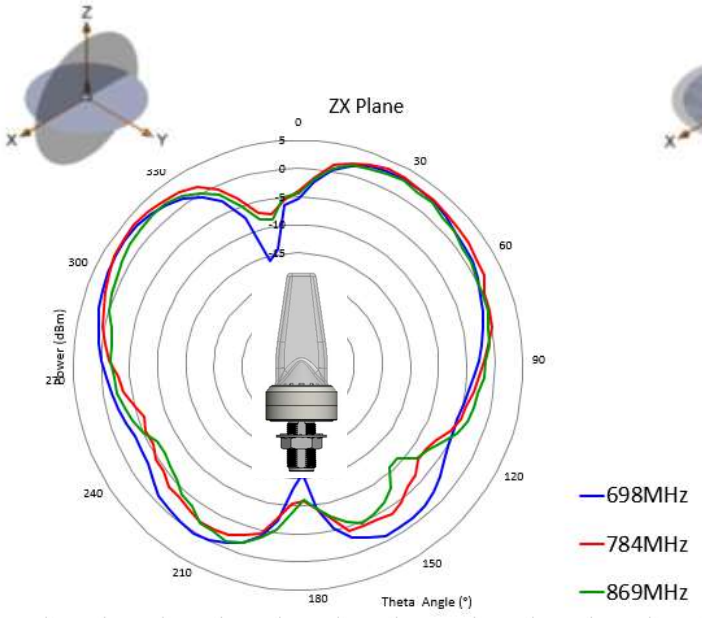
PART NUMBER: ICEFINXXX

CHARTS

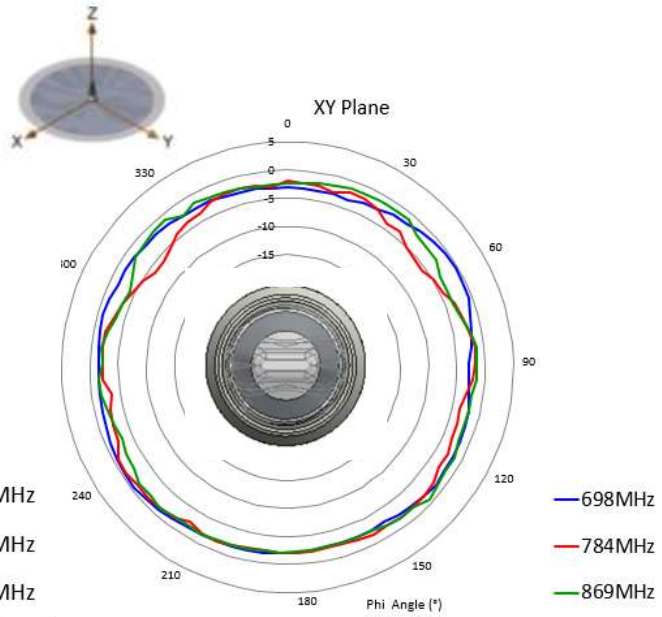
Free Space Radiation Pattern

ICEFIN698/869DMN

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

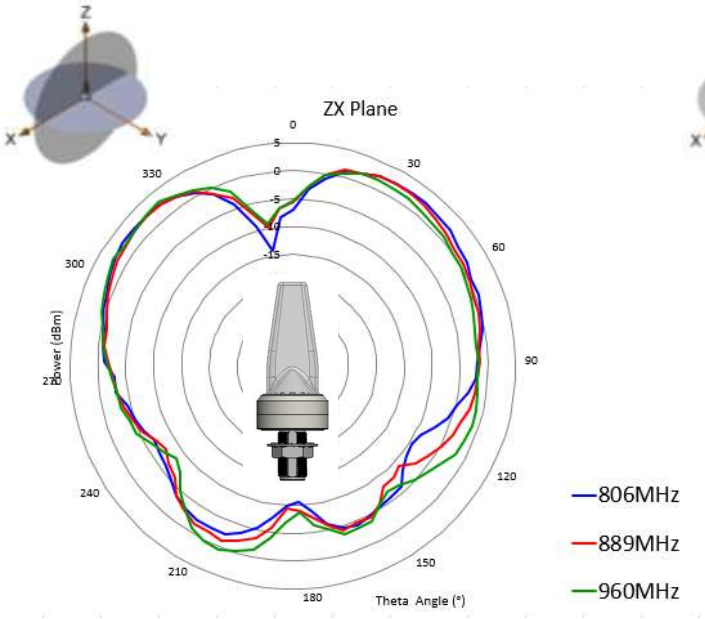
PART NUMBER: ICEFINXXX

CHARTS

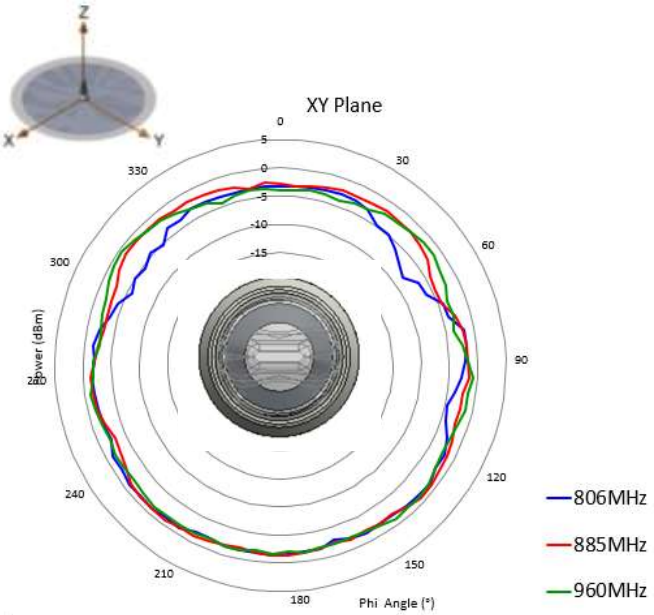
Free Space Radiation Pattern

ICEFIN806DMN

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

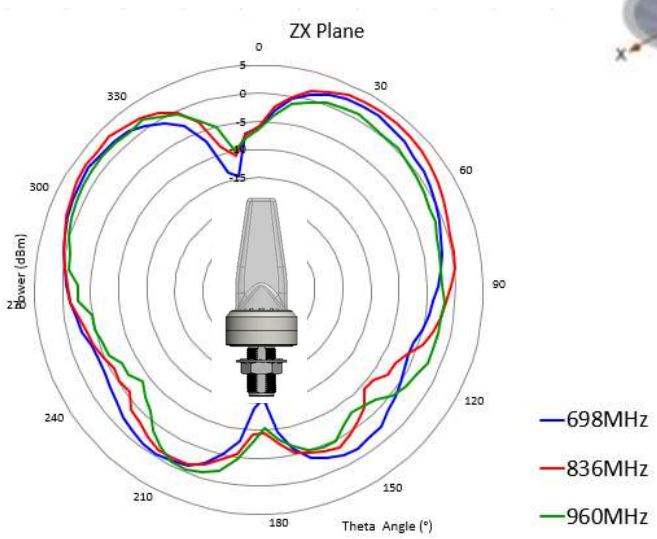
PART NUMBER: ICEFINXXX

CHARTS

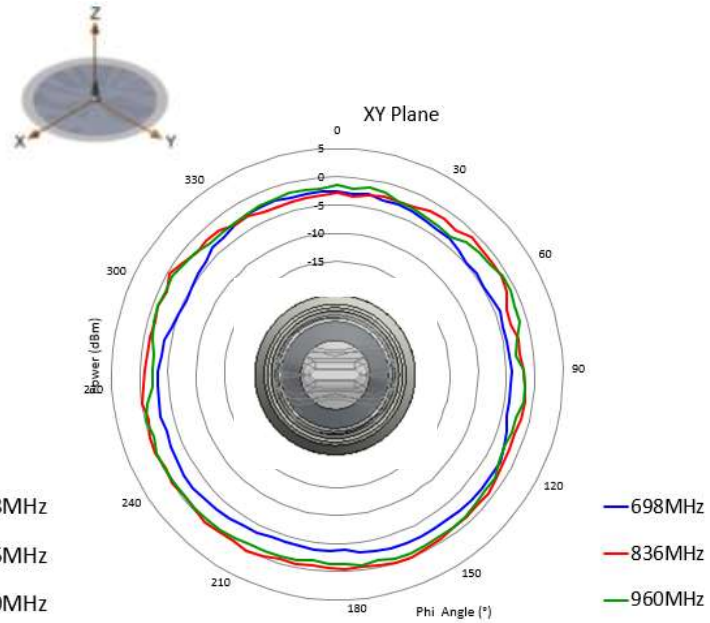
Free Space Radiation Pattern

ICEFINLDMN

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

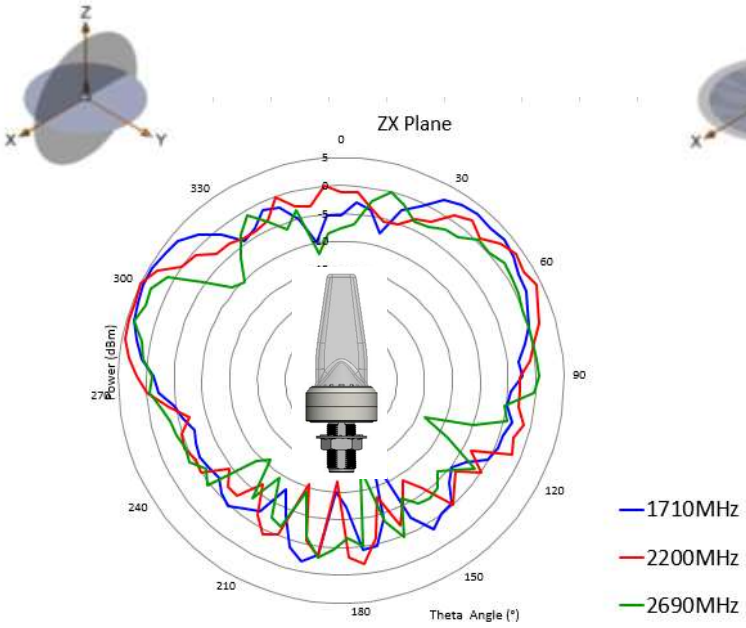
PART NUMBER: ICEFINXXX

CHARTS

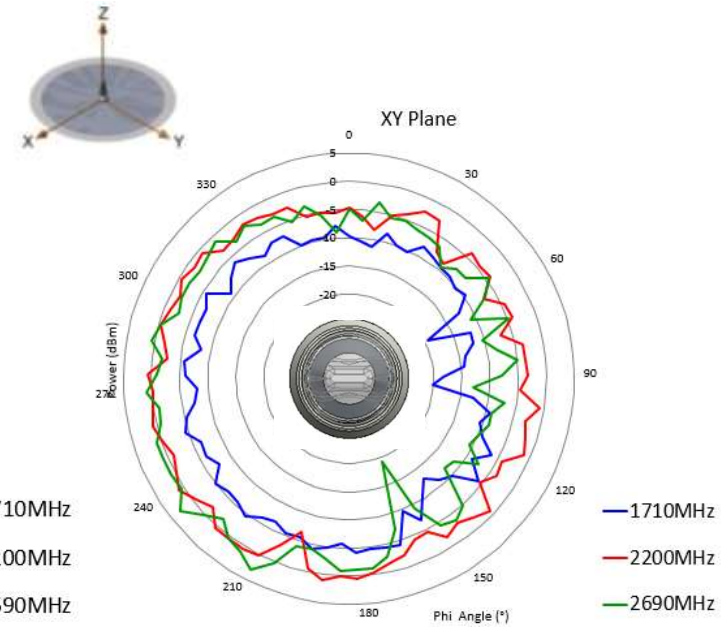
Free Space Radiation Pattern

ICEFINLDMN

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

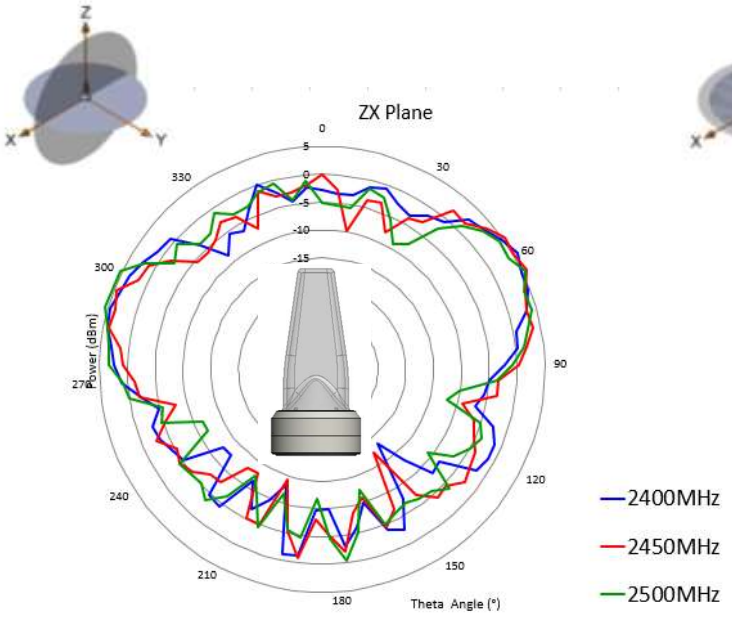
PART NUMBER: ICEFINXXX

CHARTS

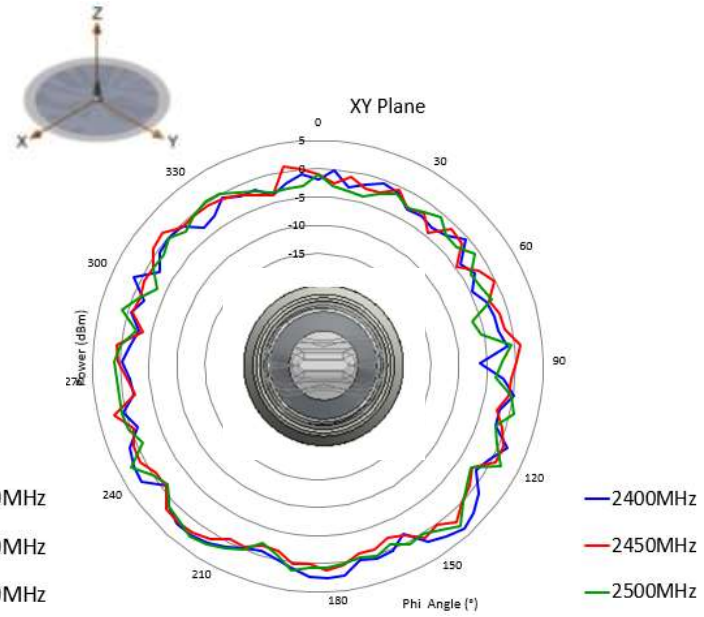
Free Space Radiation Pattern

ICEFIN24NMOHF

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

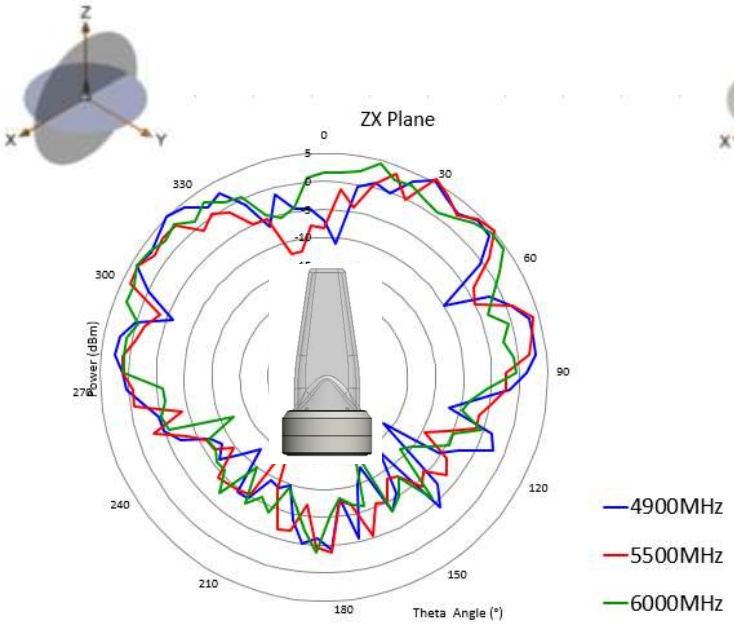
PART NUMBER: ICEFINXXX

CHARTS

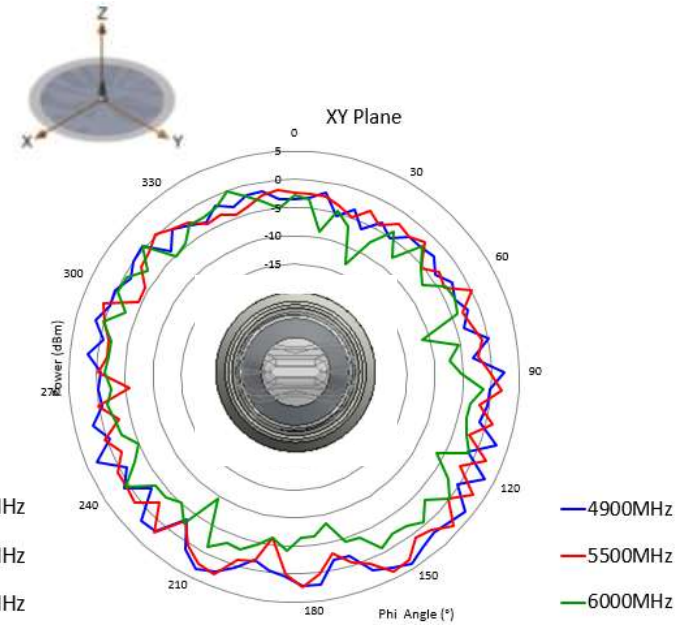
Free Space Radiation Pattern

ICEFIN49NMOHF

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

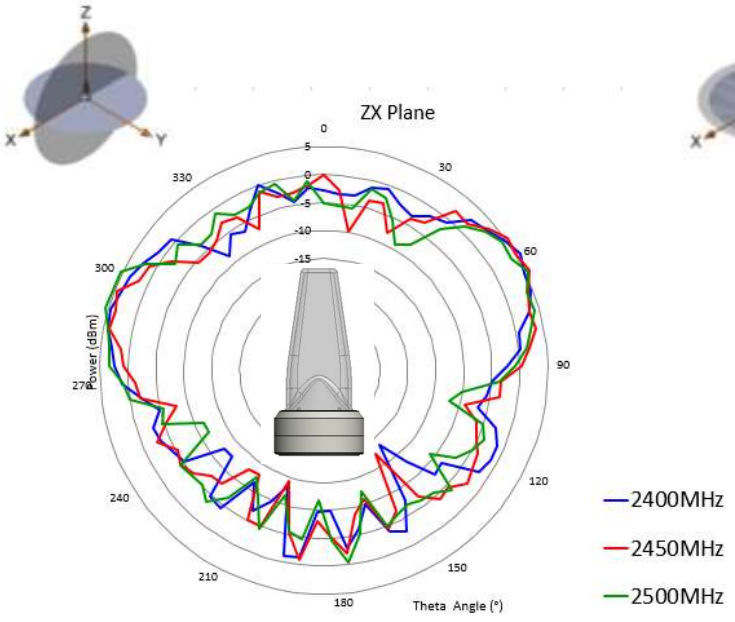
PART NUMBER: ICEFINXXX

CHARTS

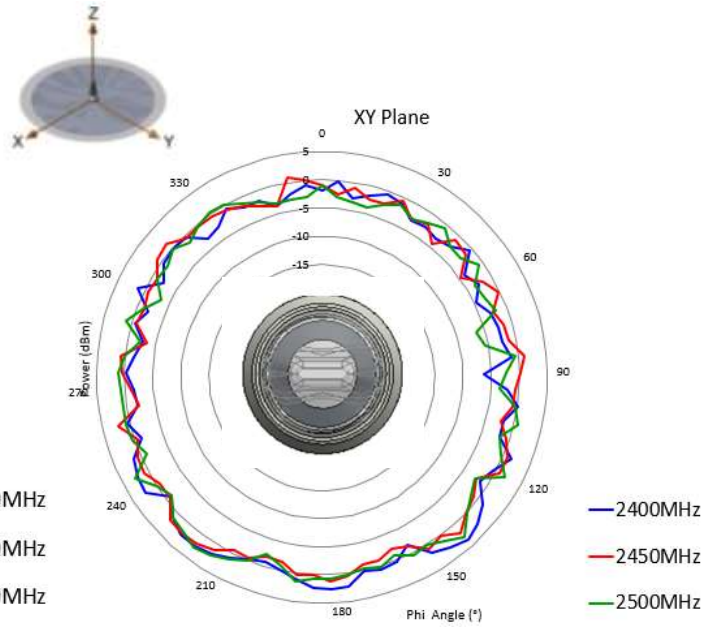
Free Space Radiation Pattern

ICEFINWNMOHF

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

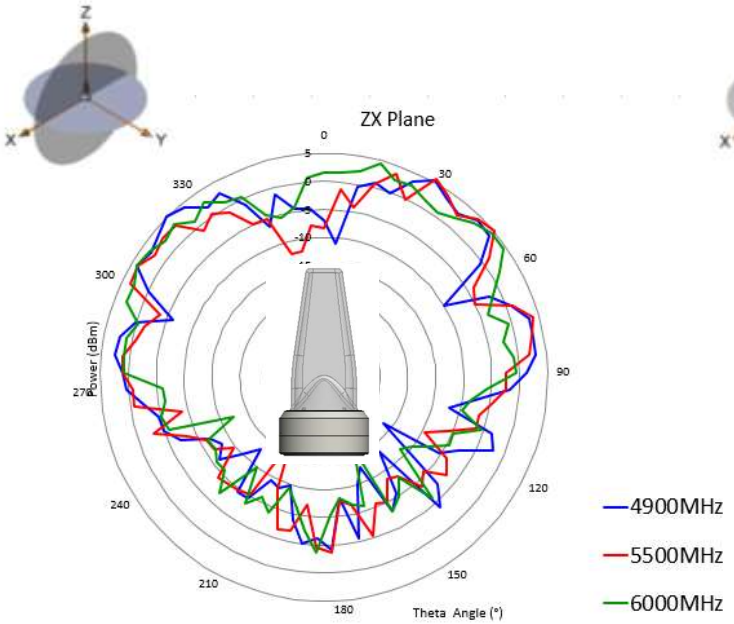
PART NUMBER: ICEFINXXX

CHARTS

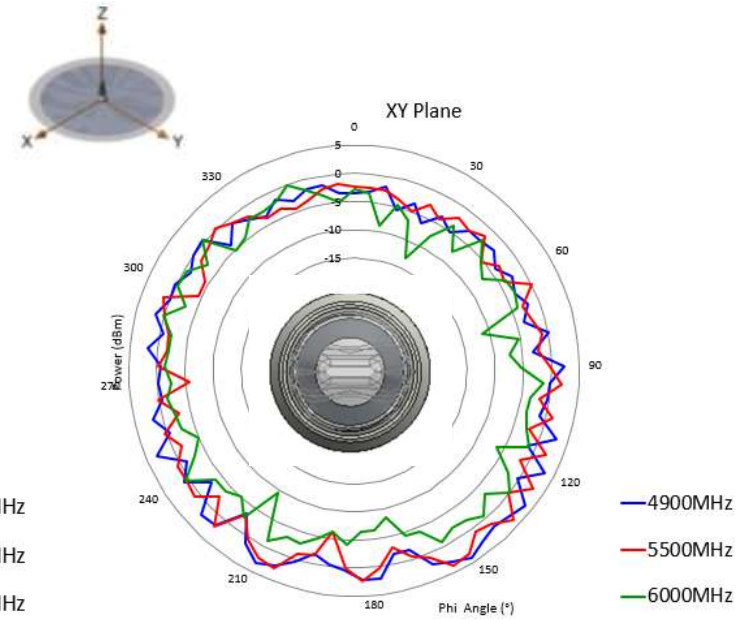
Free Space Radiation Pattern

ICEFINWNMOHF

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

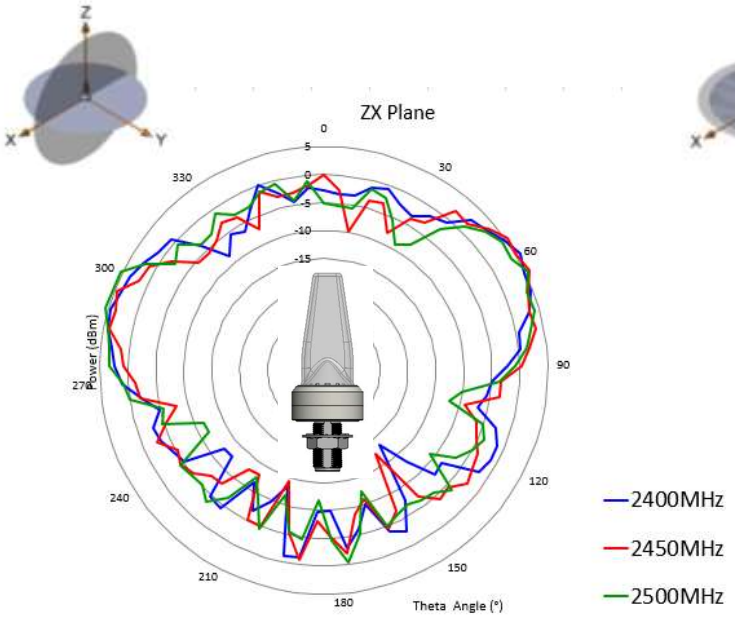
PART NUMBER: ICEFINXXX

CHARTS

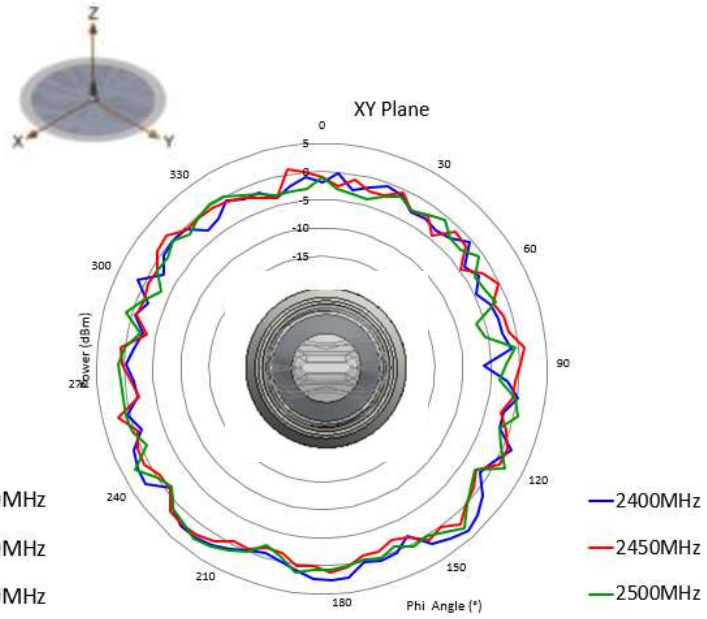
Free Space Radiation Pattern

ICEFIN24DMN

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

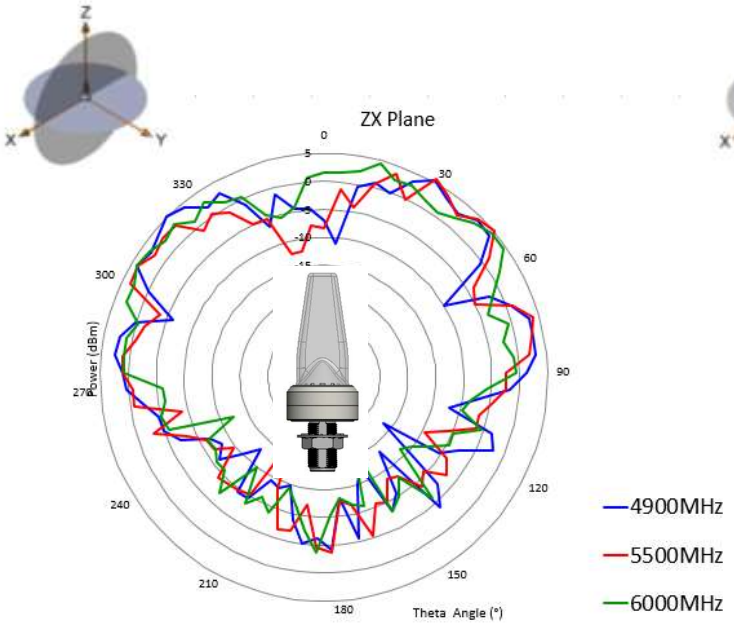
PART NUMBER: ICEFINXXX

CHARTS

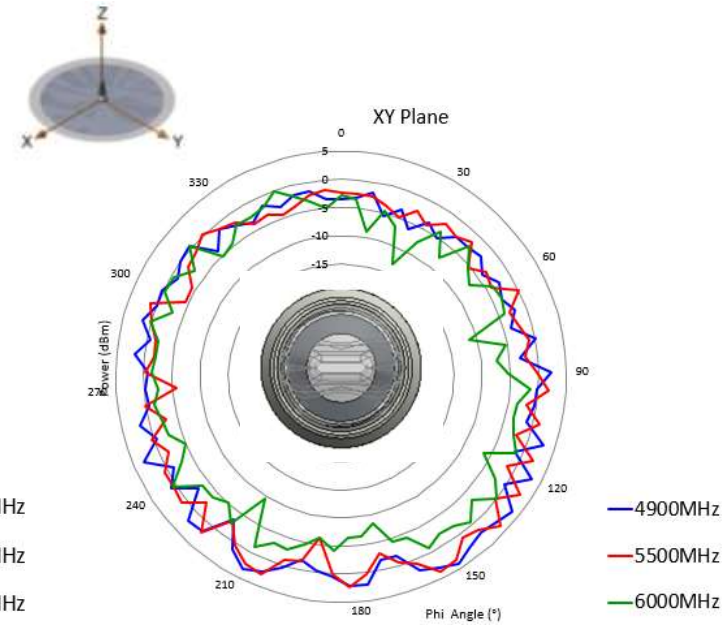
Free Space Radiation Pattern

ICEFIN49DMN

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

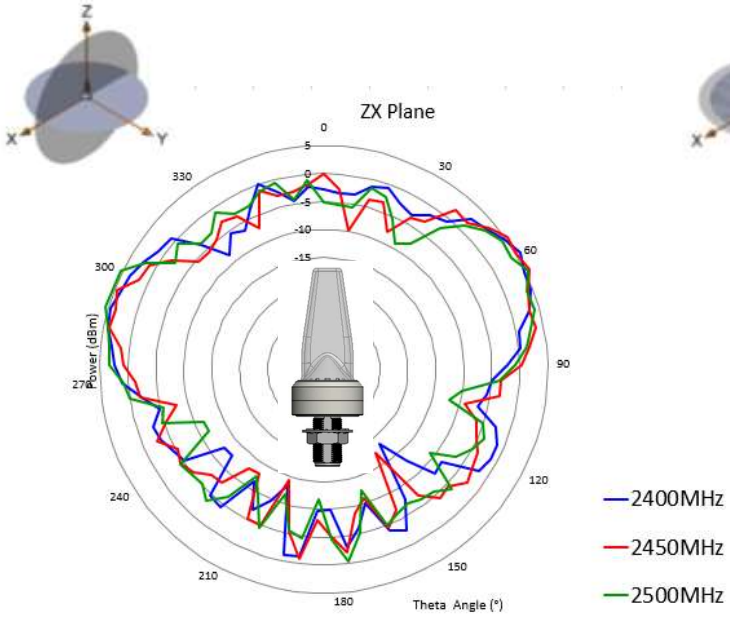
PART NUMBER: ICEFINXXX

CHARTS

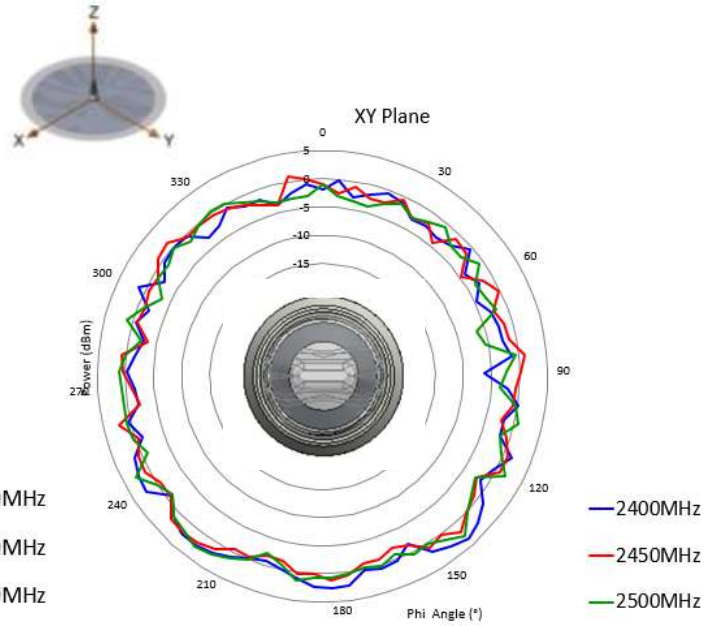
Free Space Radiation Pattern

ICEFINWDMN

Elevation Plane



Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

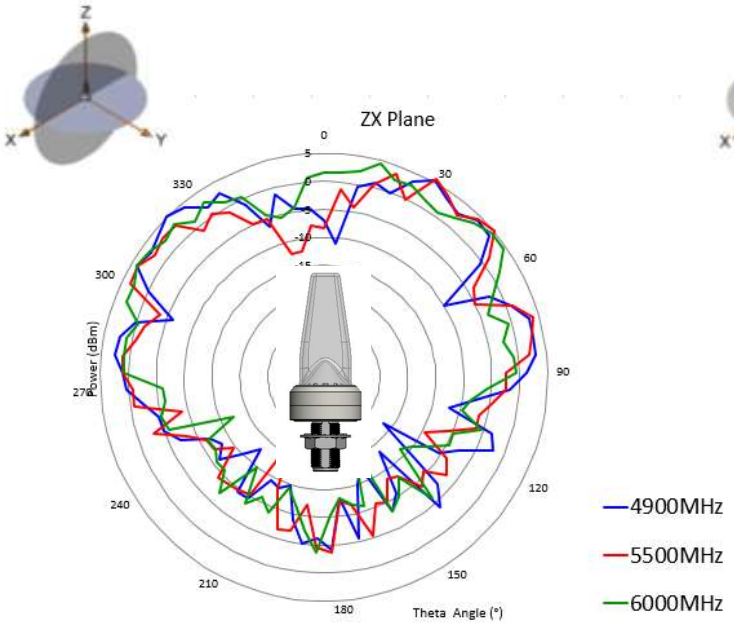
PART NUMBER: ICEFINXXX

CHARTS

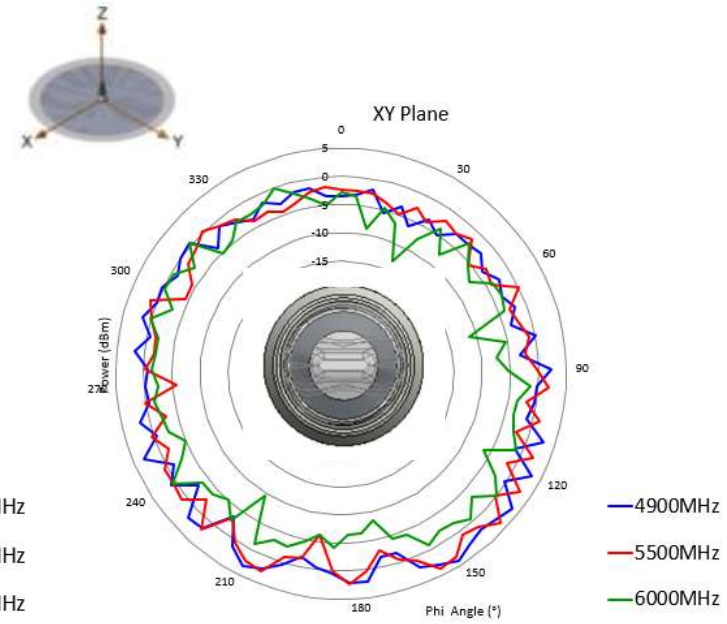
Free Space Radiation Pattern

ICEFINWDMN

Elevation Plane



Horizontal Plane



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PulseLARSEN Antennas

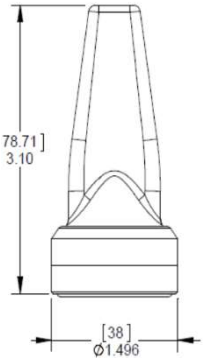
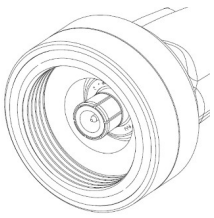
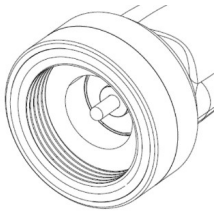
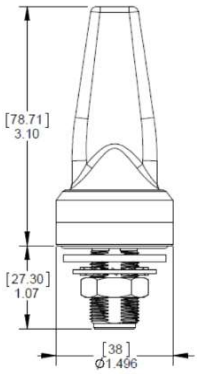
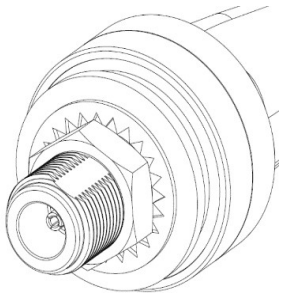
TECHNICAL DATA SHEET

Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

PACKAGING

Project	Color	Frequency	Size	Fixing System Connector	Packaging
ICEFINLNMOHF	**Clarity**	**698-960MHz 1710-2700MHz**		 NMOHF NMO + HF Connector	**16 pcs / Tray 32 pcs / Carton**
ICEFIN698/960NMO	**Clarity**	**750-960MHz**		 NMO Pogo Pin Connector	
ICEFIN806NMO	**Clarity**	**806-960MHz**			
ICEFIN698/869DMN	**Clarity**	**698-869MHz**		 DMN Direct Mount + N Female Connector (Screw 5/18-24 UNEF 2A)	**96 pcs / Carton**
ICEFIN806DMN	**Clarity**	**806-960MHz**			
ICEFINLDMN	**Clarity**	**698-960MHz 1710-2700MHz**			

Issue: 1743

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PulseLARSEN Antennas

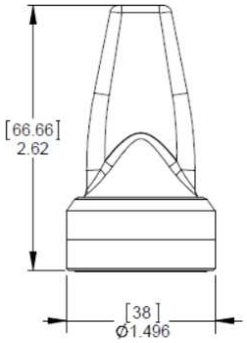
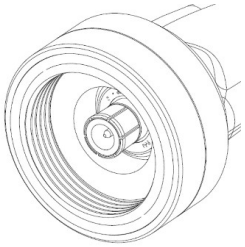
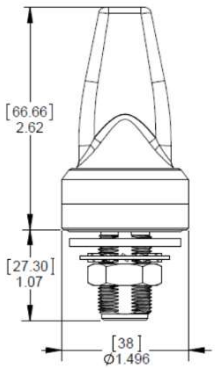
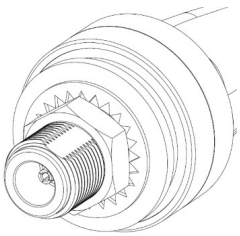
TECHNICAL DATA SHEET

Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

PACKAGING

Project	Color	Frequency	Size	Fixing System Connector	Packaging
ICEFIN24NMOHF	Clarity	2400-2500MHz		 NMOHF NMO + HF Connector	16 pcs / Tray 32 pcs / Carton
ICEFIN49NMOHF	Clarity	4900-6000MHz			
ICEFINWNMOHF	Clarity	2400-2500MHz 4900-6000MHz			
ICEFIN24DMN	Clarity	2400-2500MHz		 Direct Mount N Female Connector (Screw 5/18-24 UNEF 2A)	96 pcs / Carton
ICEFIN49DMN	Clarity	4900-6000MHz			16 pcs / Tray 32 pcs / Carton
ICEFINWDMN	Clarity	2400-2500MHz 4900-6000MHz			96 pcs / Carton

Issue: 1743

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