

Datasheet EVAc roof pod antenna module

MOLEX CVS HILDESHEIM

2024.09.09

Supplier data



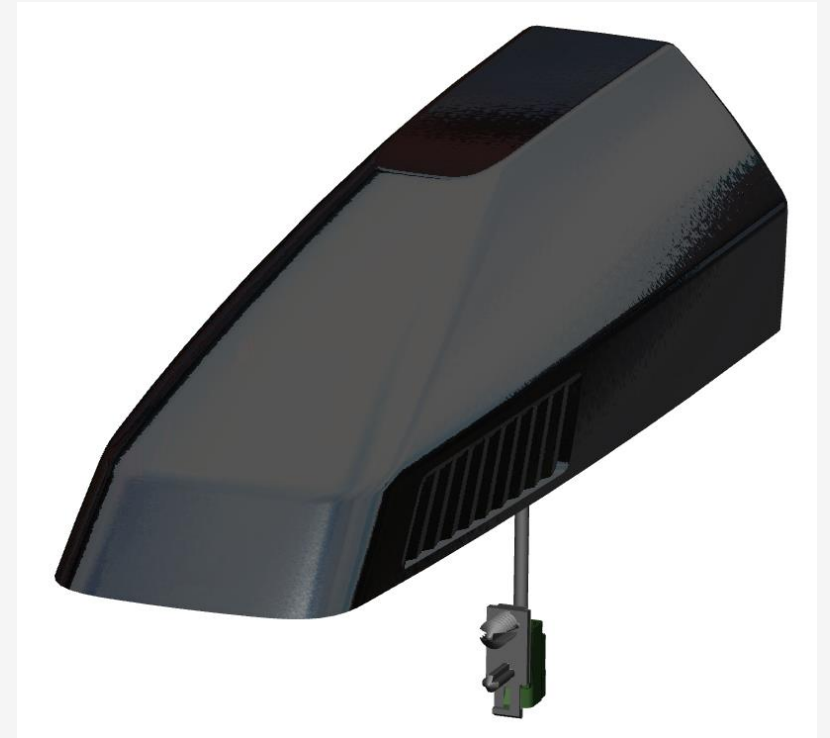
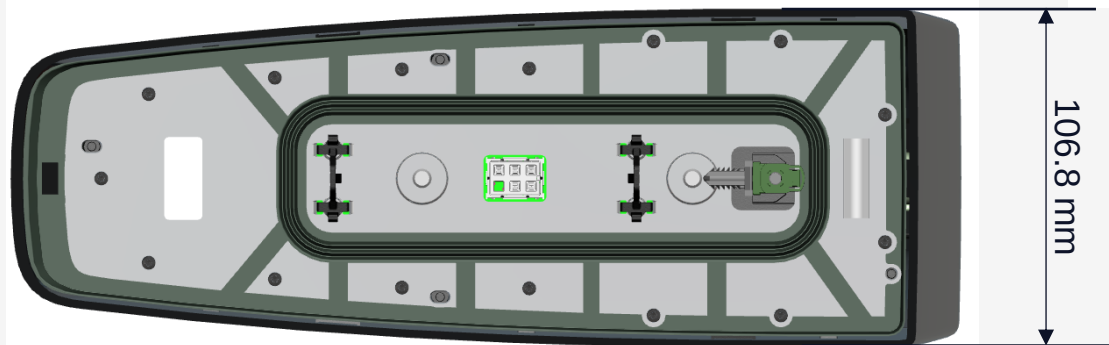
Customer Part Number	TEVA-18D862-DB
Description	BSE ASY ANT
Company	Molex CVS Hildesheim GmbH
Address	Daimlerring 31, D-31135 Hildesheim

Mechanic



Design, geometry &
overview of components

Mechanical data



Electrical parameter

Overview



Parameter	Min.	Typ.	Max.	Unit	Comment
Supply voltage	4,0	4,2	4,4	V	
Current consumption	20	30	100	mA	
Amplifier gain	20	24,3	50	dB	Level @ B2B connector
Gain ripple	-3,7		+ 2,3	dB	
Output return loss			-10	dB	
Noise Figure		< 2,0	2,5	dB	

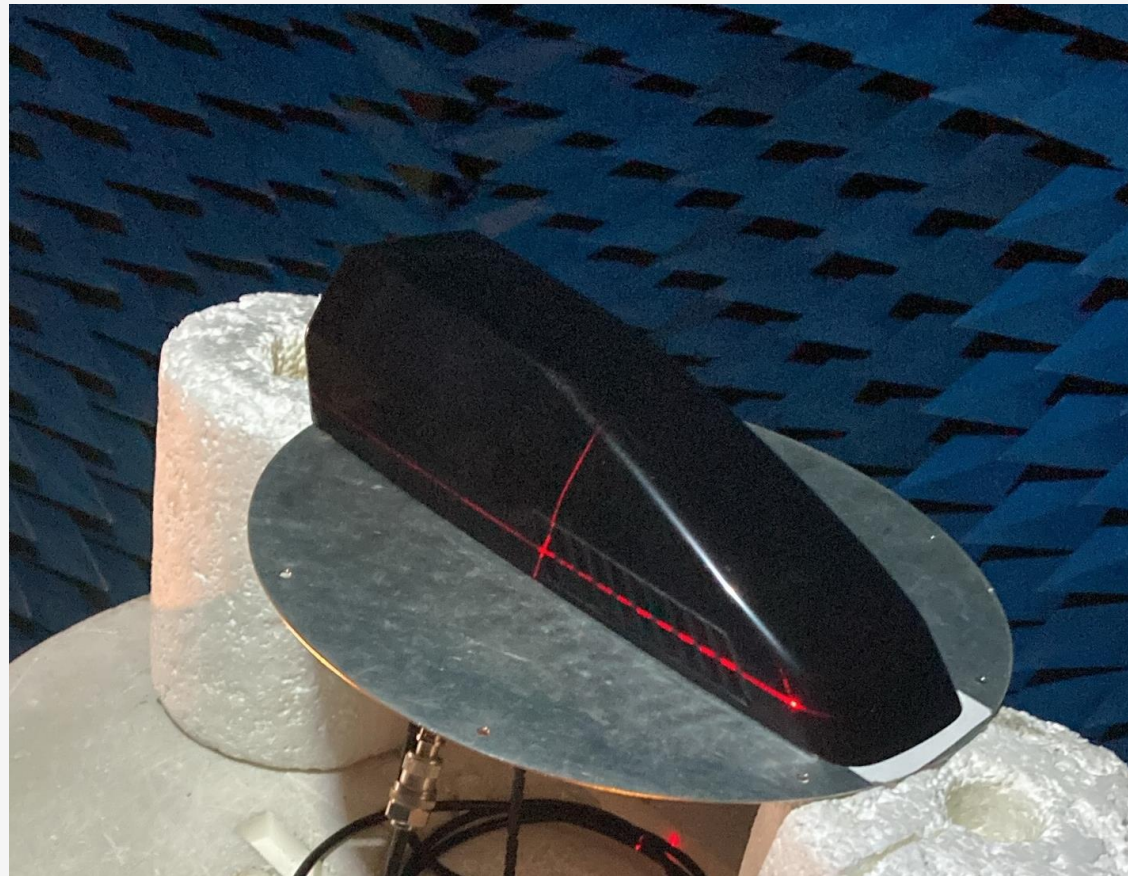
Antenna measurements



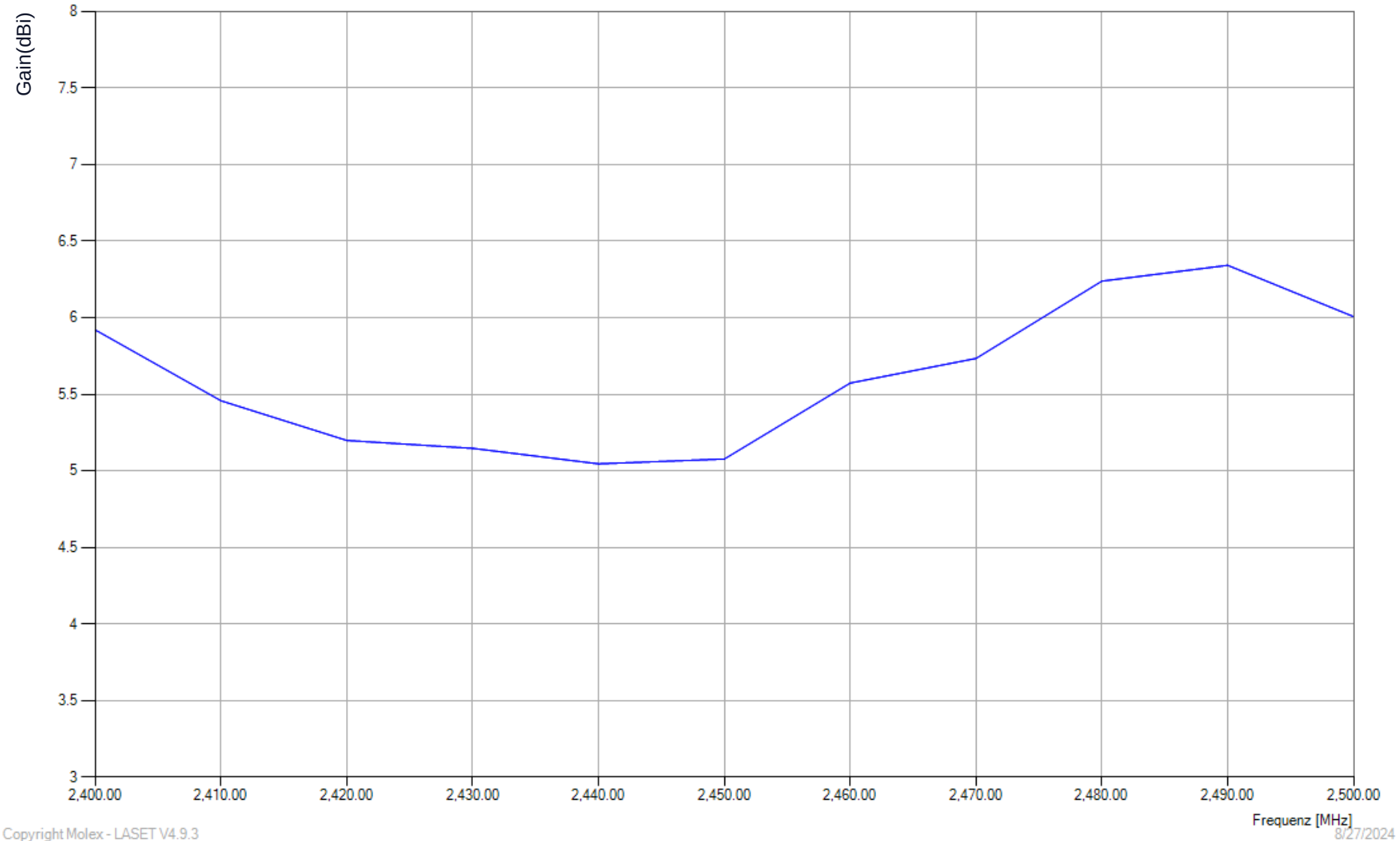
Passive parameter

Passive antenna measurements

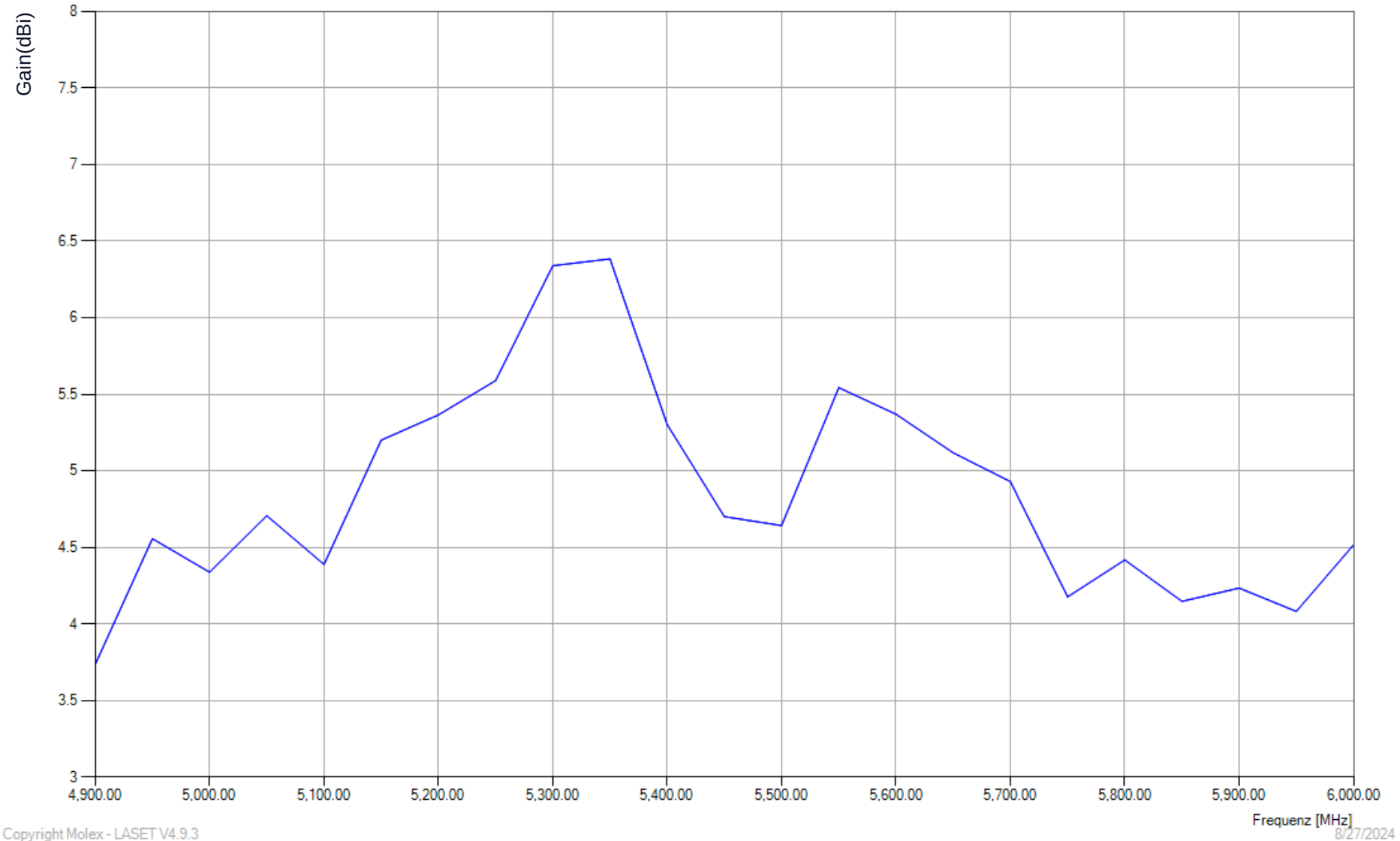
The data is based on antenna measurement with MVG SG64 anechoic chamber in Molex Hildesheim with 300mm circular ground plane



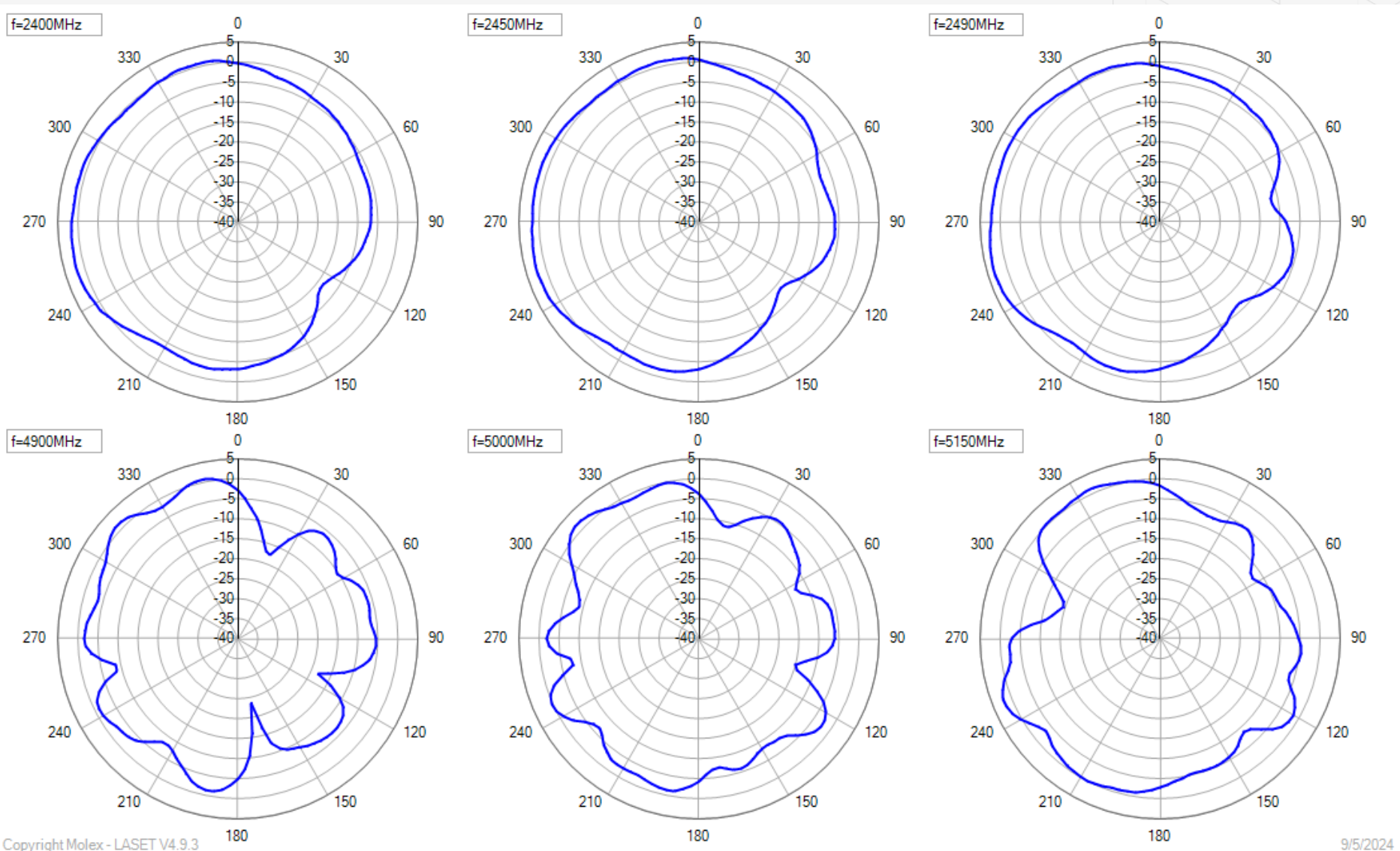
WIFI Max. Gain vs. Frequency (2400 MHz-2500 MHz)



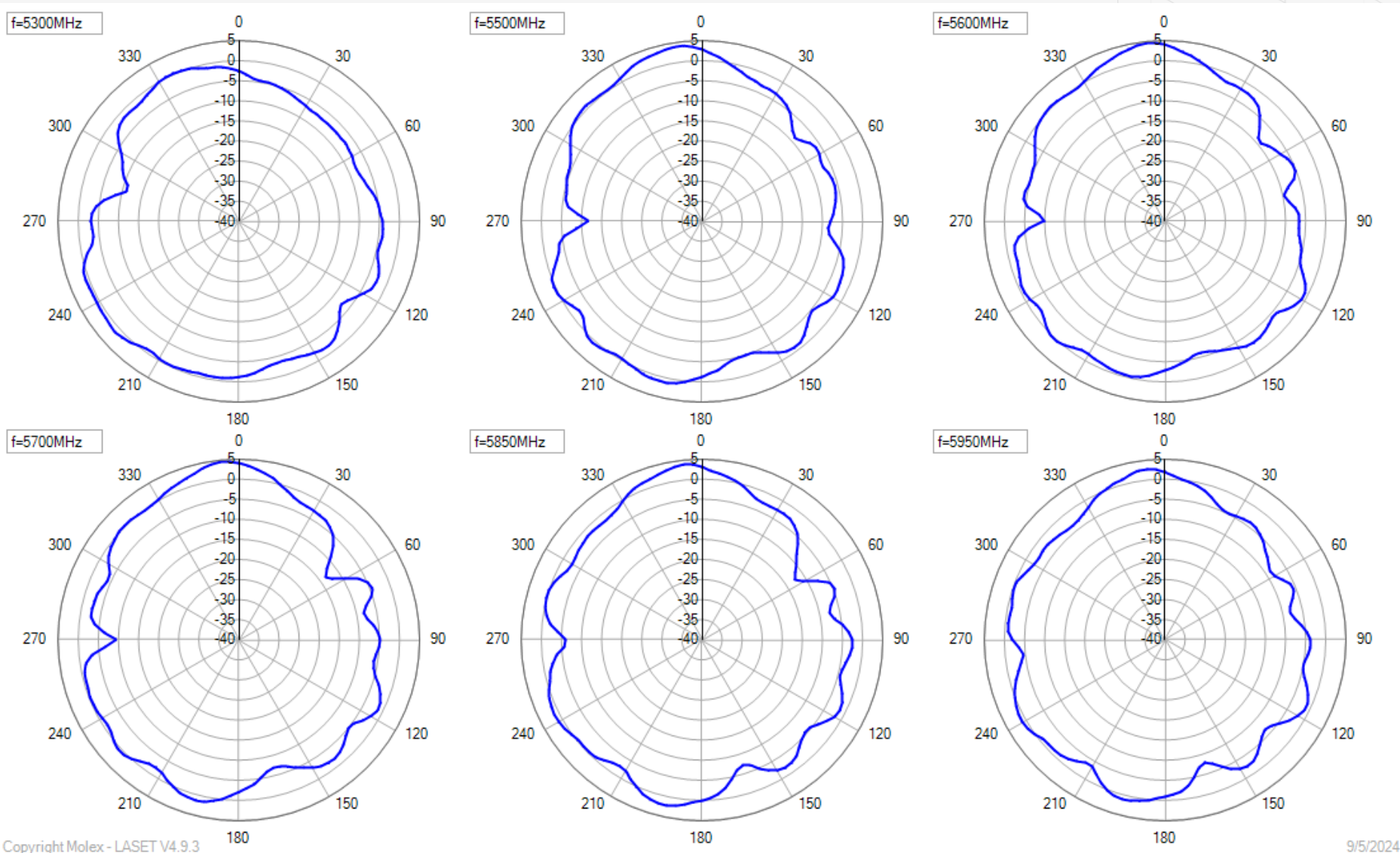
WIFI Max. Gain vs. Frequency (4900 MHz-6000 MHz)



Horizontal Radiation Pattern WIFI ,dBi (EL0°)



Horizontal Radiation Pattern WIFI ,dBi (EL0°)



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9/5/2024

Max. Gain Summary, WIFI



Operating Band	Uplink (UL) band		Peak Gain(dBi)
	F _{Low}	F _{High}	
WLAN 2.4GHz	2412 MHz	2472 MHz	5.73
WLAN 5.2GHz	5150 MHz	5350 MHz	6.38
WLAN 5.5GHz	5470 MHz	5850 MHz	5.54
WLAN 5.8GHz	5725 MHz	5850 MHz	4.42

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