



MIKROTIK

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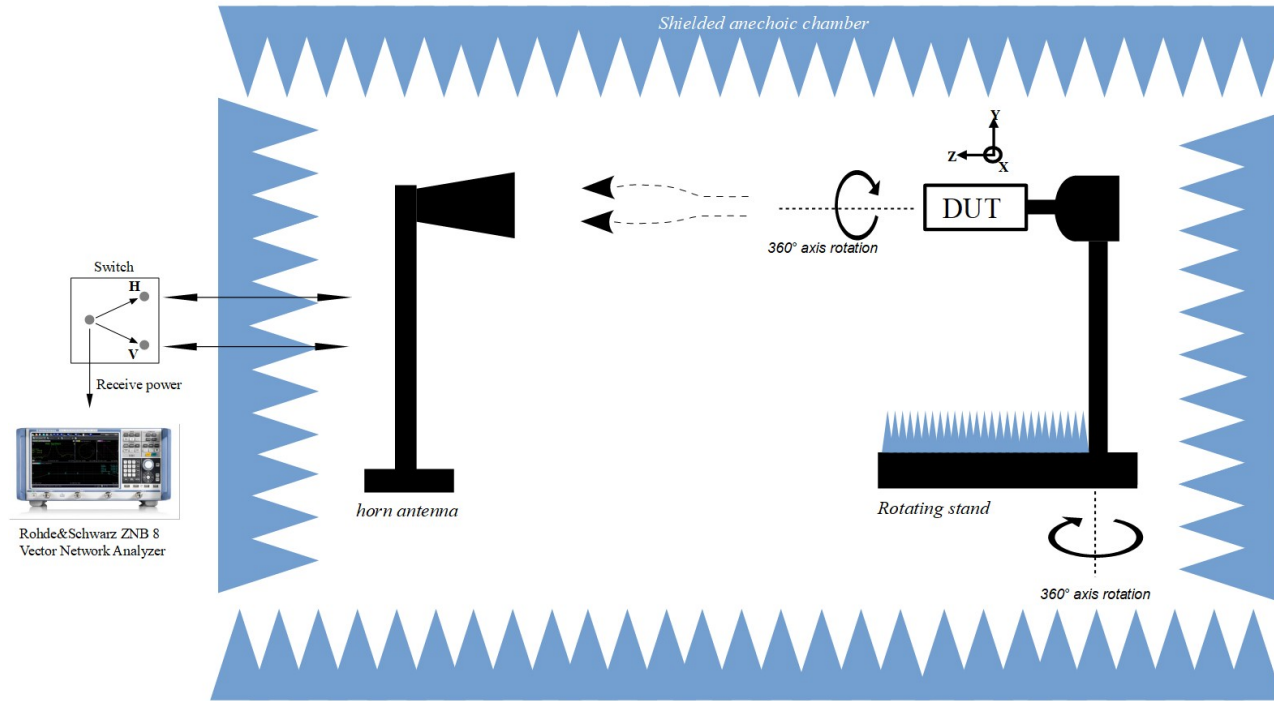
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Antenna details

Ant No.	Number of Antennas	Type	Manufacturer	Model	Family	Peak Gain (dBi)	Frequency Band (MHz)
1	1	Internal (Wi-Fi and BLE)	MikroTik	HSA256-ANT-L1-ADH-R0	PIFA antenna	4 dBi for 2.4 GHz and 8 dBi for 6 GHz	5925-7125 and 2412-2462
2	1			HSA256-ANT-L2-ADH-R0		4 dBi for 2.4 GHz and 8 dBi for 6 GHz	5925-7125 and 2412-2462
3	1			HSA256-ANT-L3-ADH-R0		8 dBi for 5 GHz	5150-5850
4	1			HSA256-ANT-L4-ADH-R0		4 dBi for 2.4 GHz and 8 dBi for 5 GHz	5150-5850 and 2412-2462

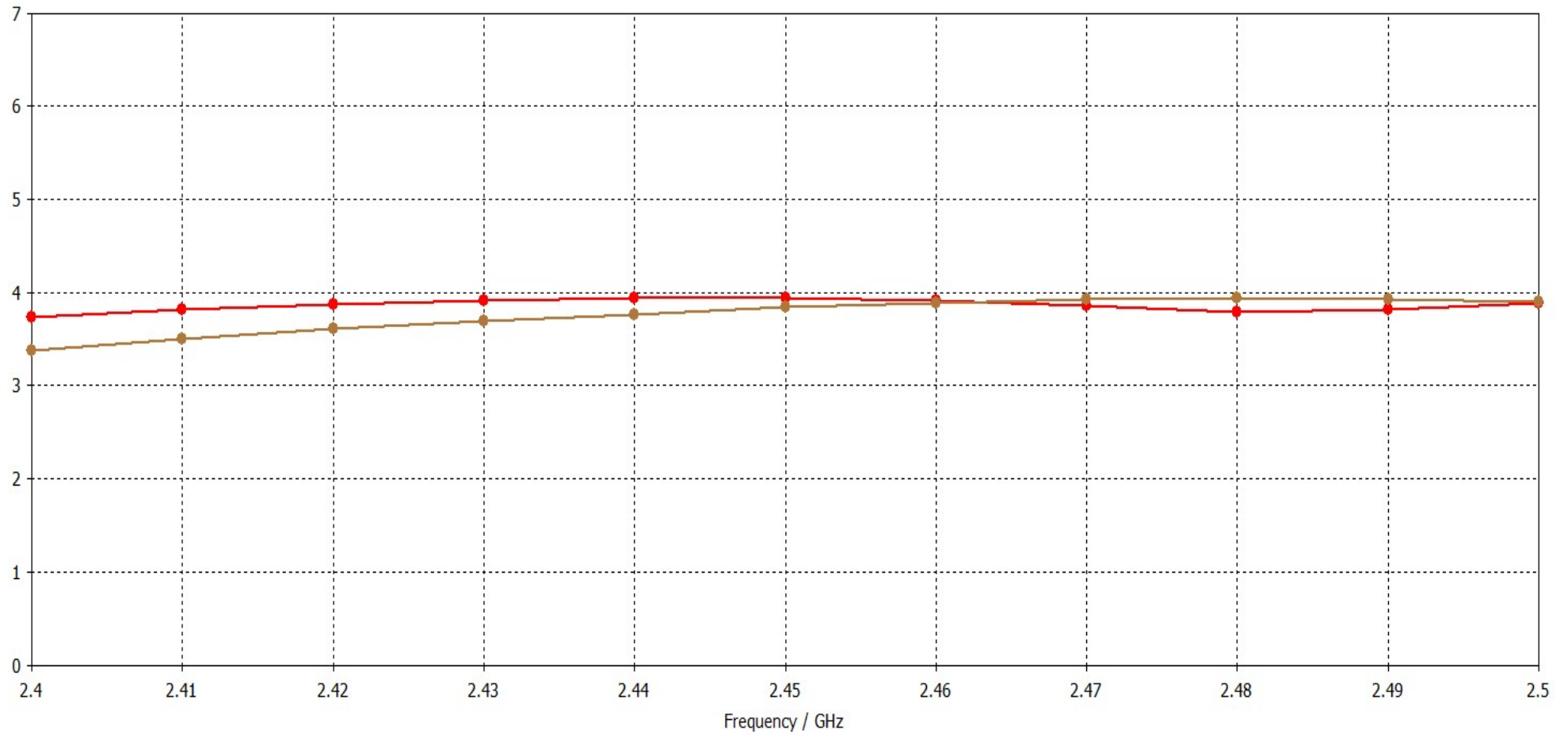
Antenna Gain Testing Setup



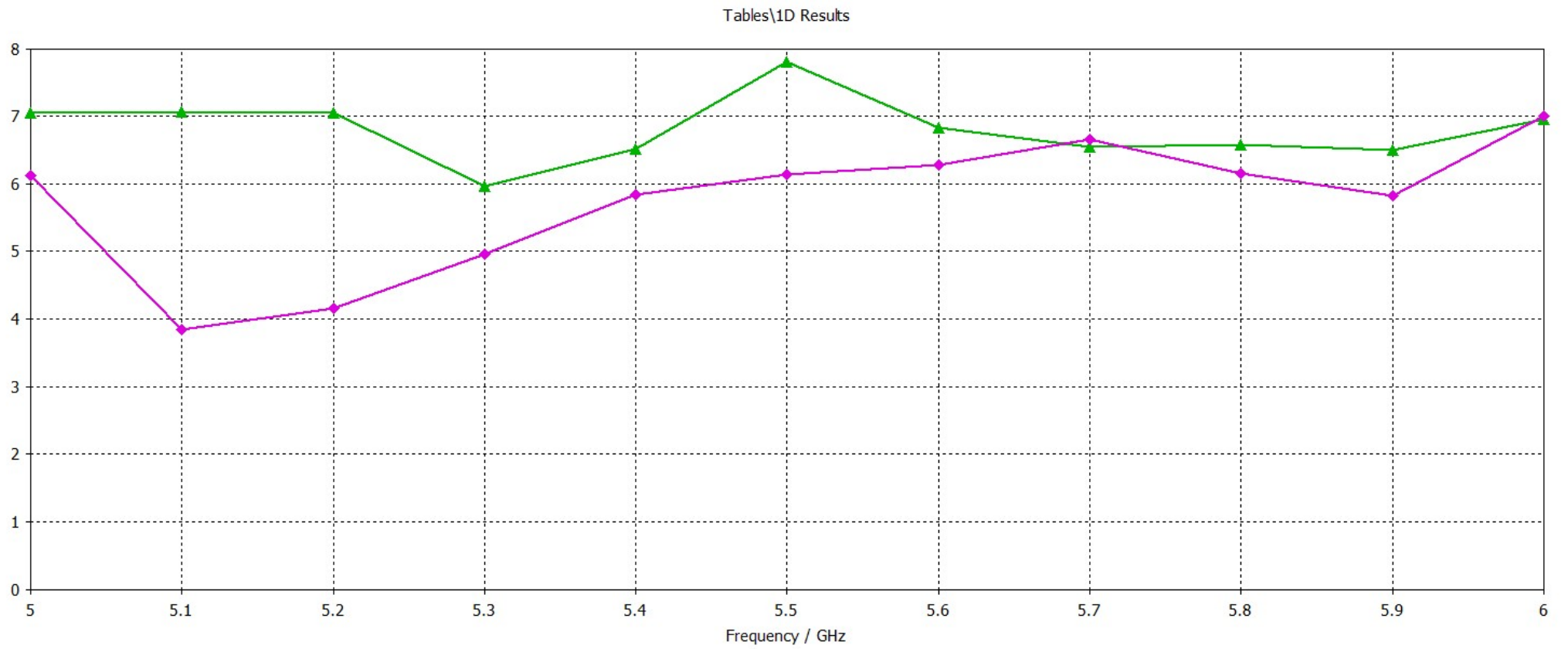
Explanation: Antenna testing is performed using the test setup above. Antenna gain is measured in 3d plane. The measurements are then taken and ran through CST studio Time domain solver simulation system to draw Antenna peak gain diagram. Simulation is performed taking into account pcb with components, case desing, heatsink and etc.

Realized antenna gain Diagram 2.4 GHz

Tables\1D Results

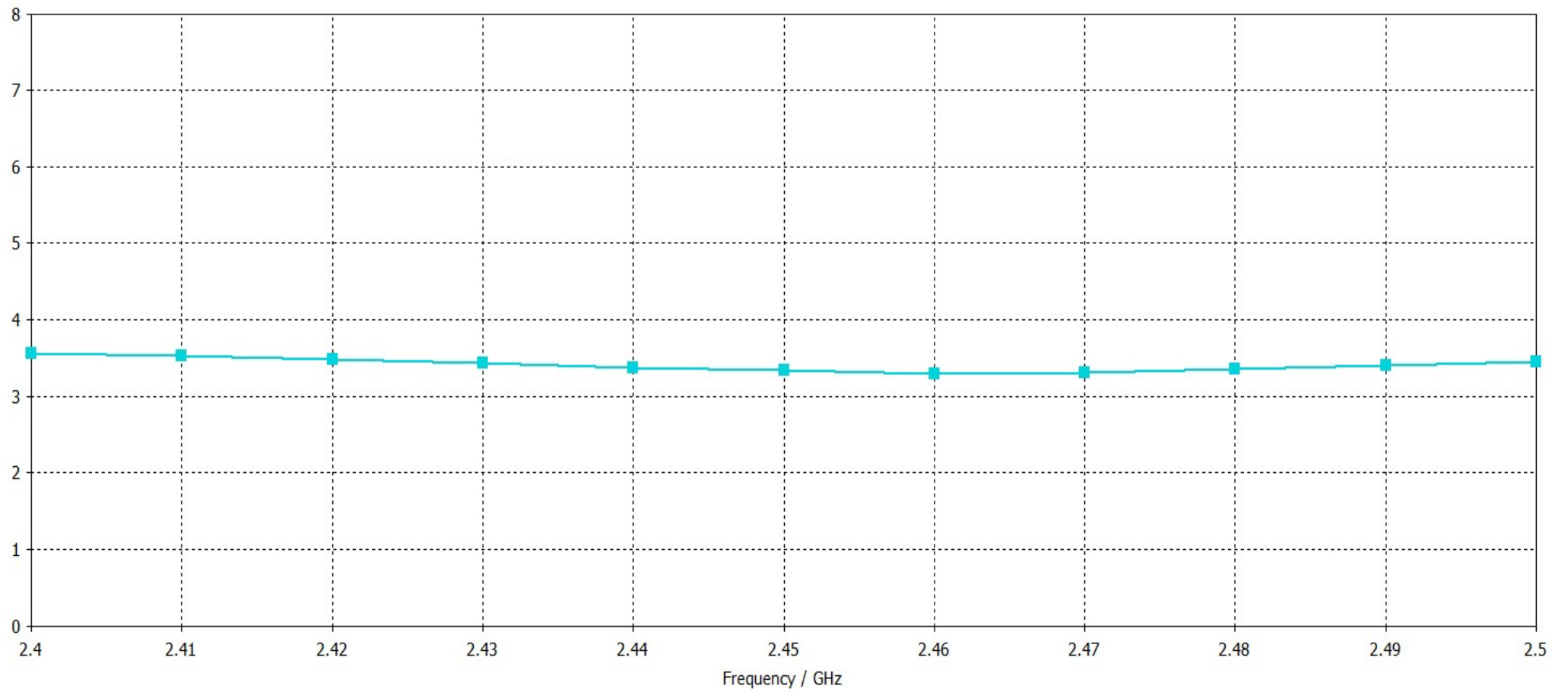


Realized antenna gain Diagram 5 GHz



Realized antenna gain Diagram 2.4 GHz BLE

Realized Gain,3D,Max. Value (Solid Angle)_7



Realized antenna gain Diagram 6 GHz

Tables\1D Results

