

Aava Mobile Ltd. CONFIDENTIAL	 www.aavamobile.com	Document No:
Title: OONA22-2W WLAN/BT antenna specification		Revision: A
Prepared by: <i>TKurj</i>		Issue Date: <2025-05-05>

OONA22-2W

WLAN/BT Antenna specification

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1. OONA22-2W WLAN/BT ANTENNA

1. 1. Antenna Dimensions and Type

- WLAN: W x L x H (10 x 3.2 x 1.5 mm) Ceramic Chip Antennas (PulseLarsen Part Number: W3006) implementing PIFA antennas. Chip antennas are operating like PIFA antennas because chip antennas are grounded via inductor to ground

1. 2. Antenna Locations

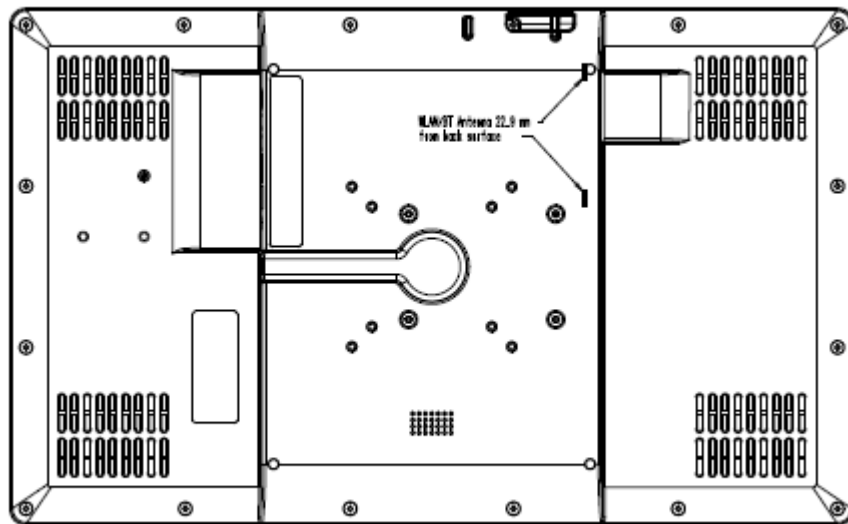


Figure 1. WLAN Antenna locations (Back)

1. 3. Peak Gain

CHAIN1	2.4GHz			5GHz			6GHz			
Frequency/MHz	2412	2442	2472	5180	5500	5805	5955	6555	6915	7115
Channel	1	7	13	36	100	161	1	121	193	233
Gain (dBi)	-3.1	-0.1	1.0	2.1	3.0	1.4	1.8	0.5	3.2	3.1
CHAIN2	2.4GHz			5GHz			6GHz			
Frequency/MHz	2412	2442	2472	5180	5500	5805	5955	6555	6915	7115
Channel	1	7	13	36	100	161	1	121	193	233
Gain (dBi)	1.2	1.2	-0.1	0.3	2.3	-0.7	0.0	1.1	3.0	1.3

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1. 4. Antenna Patterns (Middle Ch, Theta/Phi/Tot)

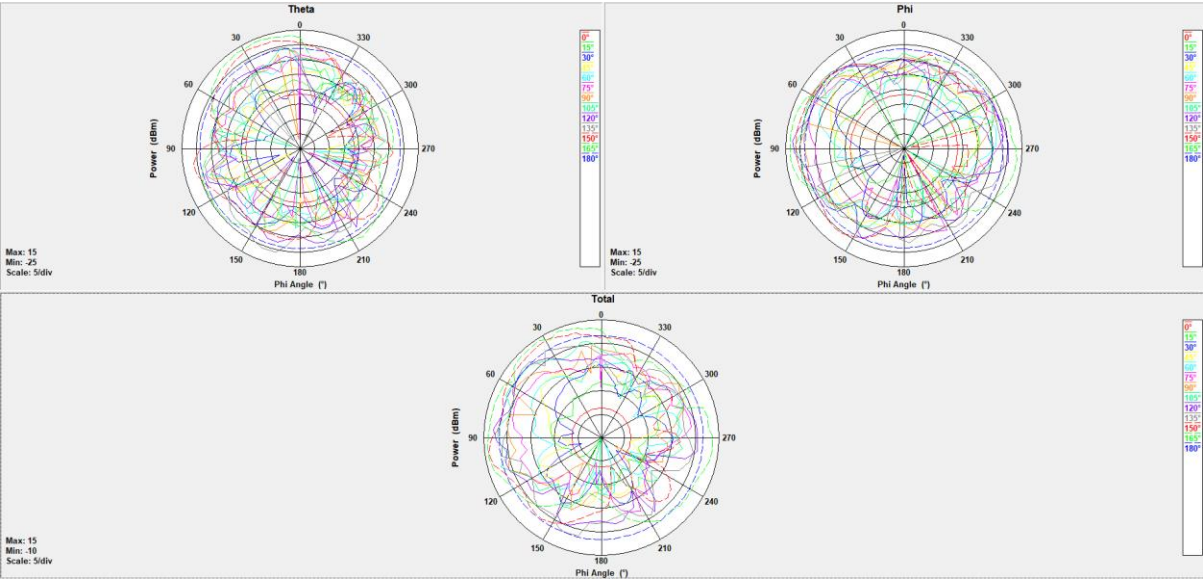


Figure 2. CHAIN1, 2.4GHz

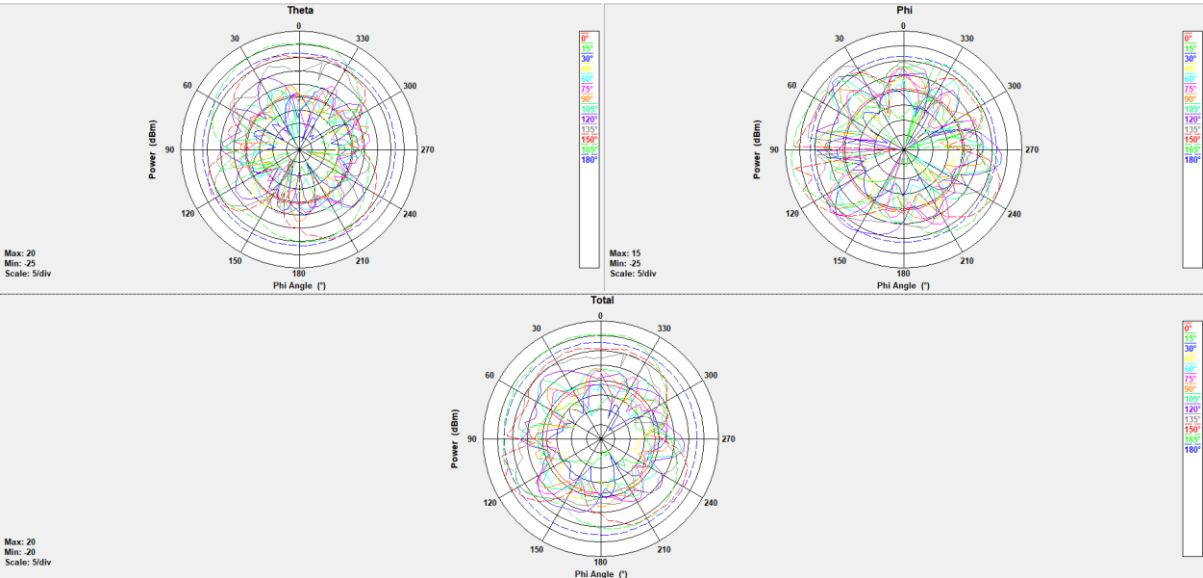


Figure 3. CHAIN2, 2.4GHz

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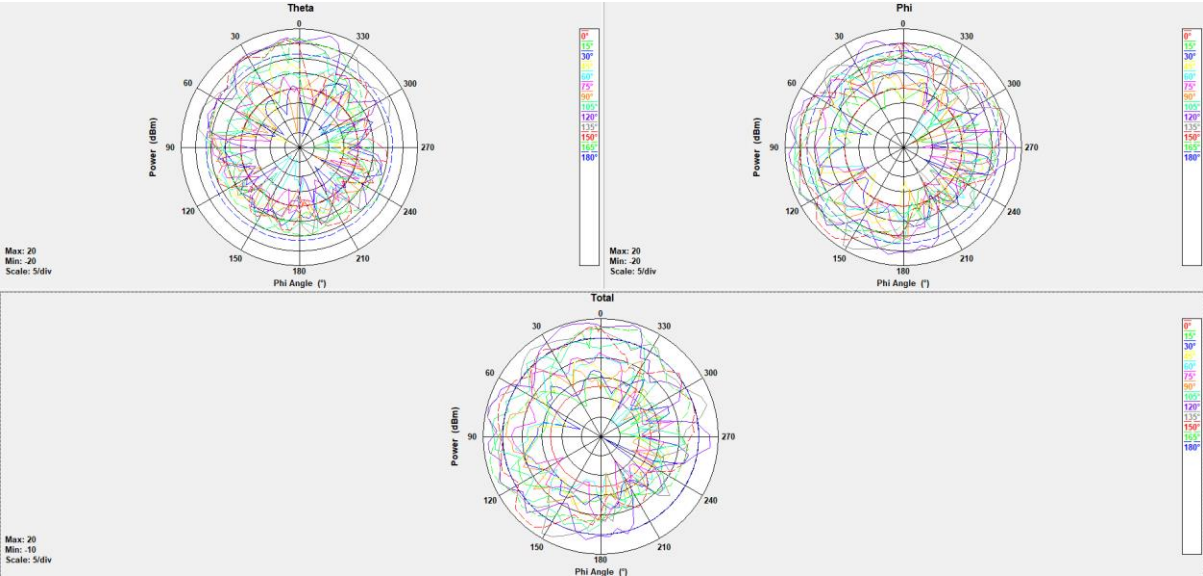


Figure 4. CHAIN1, 5GHz

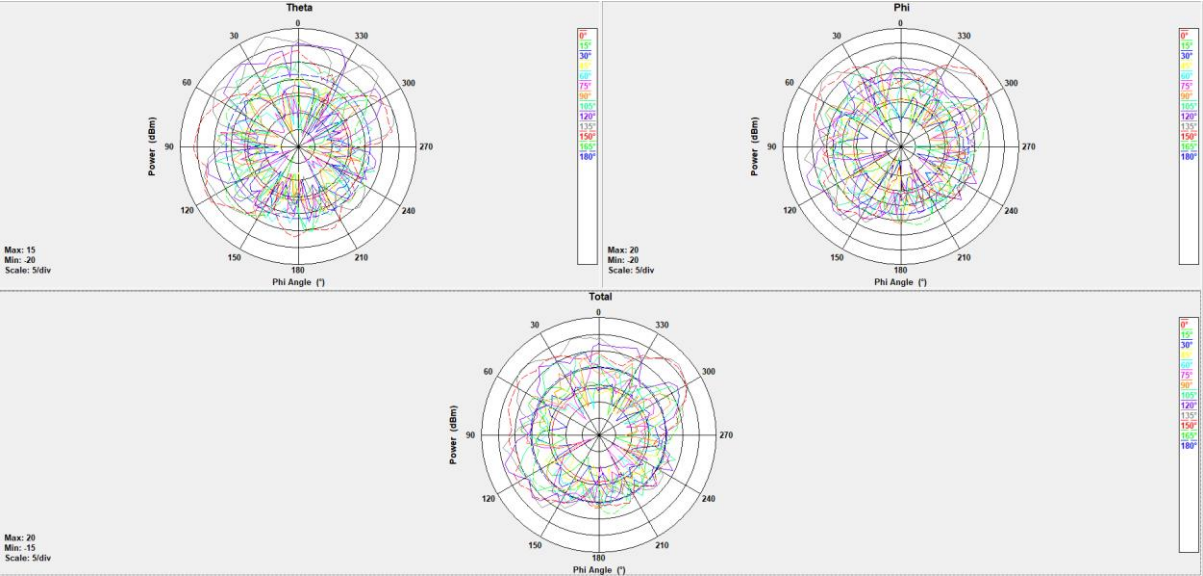


Figure 5. CHAIN2, 5GHz

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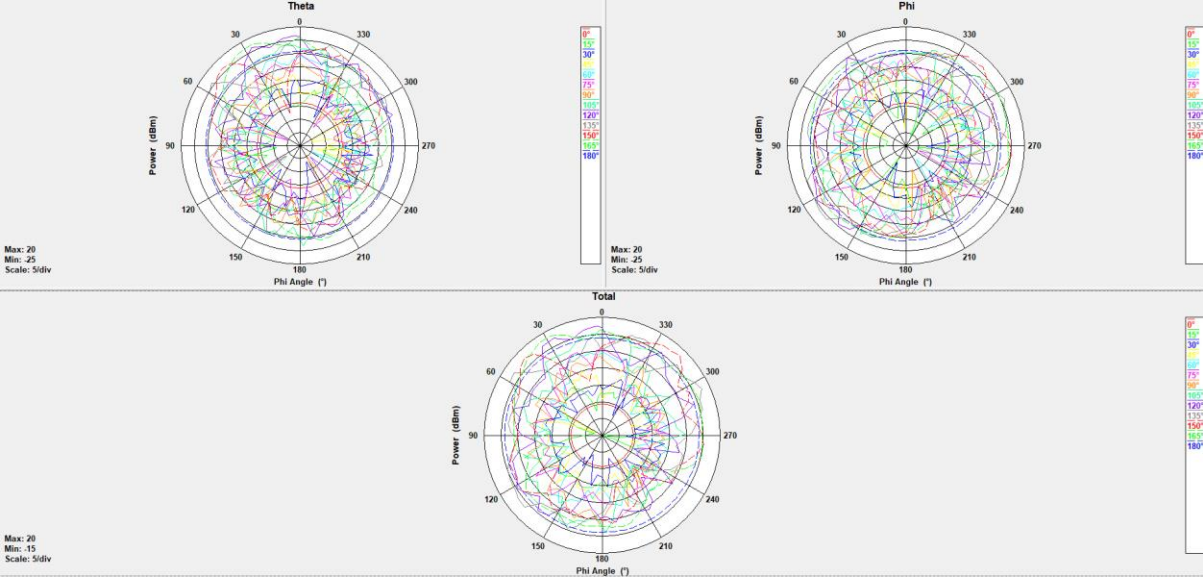


Figure 6. CHAIN1, 6GHz

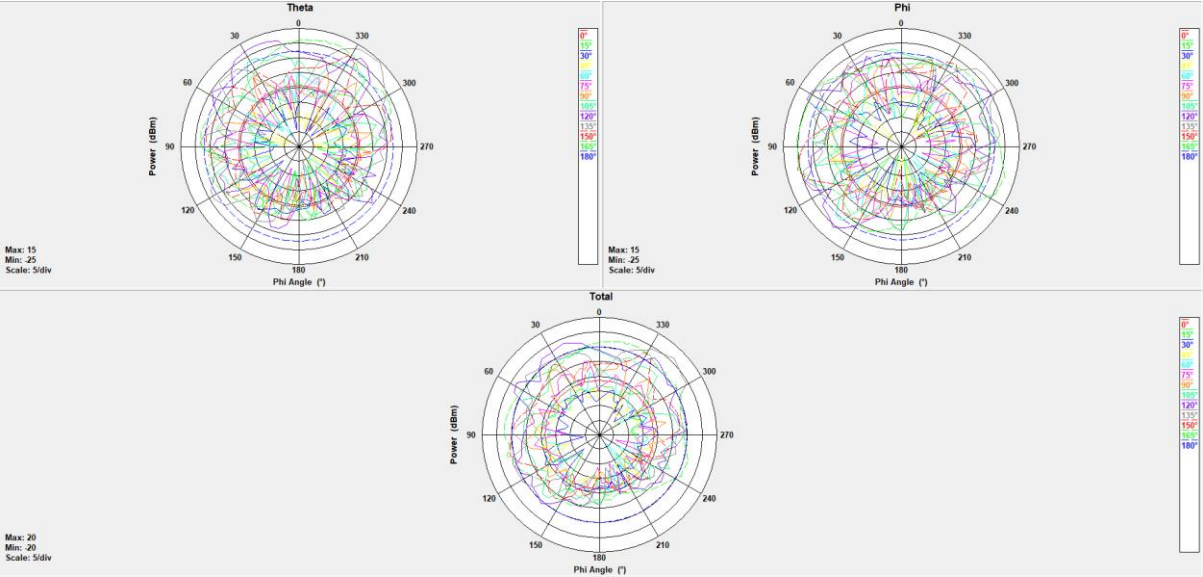


Figure 7. CHAIN2, 6GHz

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1. 5. Change History

Version (Rev X)	Date (YYYY-MM-DD)	Author	Change Reason or CR No.	Modify Contents and Location
Rev A	2025-05-05	TKurj	First release	