

Aava Mobile Ltd. CONFIDENTIAL	 www.aavamobile.com	Document No:
Title: INARI-E-10-WIG-1 WLAN antenna specification		Revision: A
Prepared by: <i>TKurj</i>		Issue Date: <2024-06-06>

INARI-E-10-WIG-1

WLAN Antenna specification

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1. INARI-E-10-WIG-1 WLAN 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

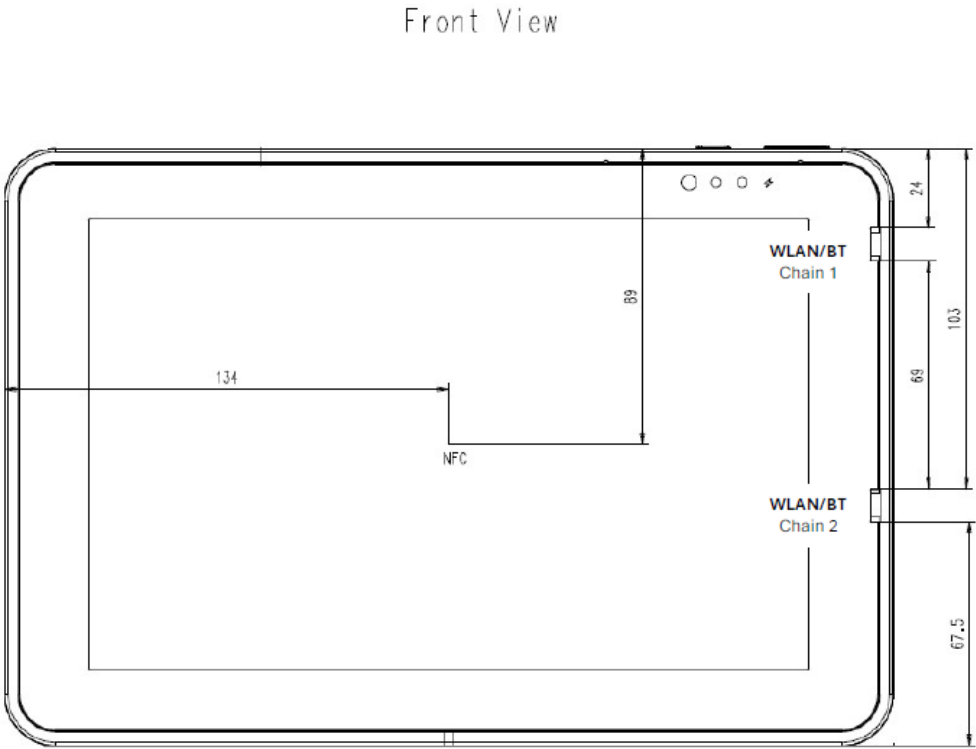


Figure 1. WLAN Antenna locations (front)

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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)	0.8	0.8	1.1	2.3	3.2	1.9	1.8	0.5	3.3	3.3

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)	1.5	2.5	2.6	3.1	3.2	2.7	0.2	1.3	3.2	1.4

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

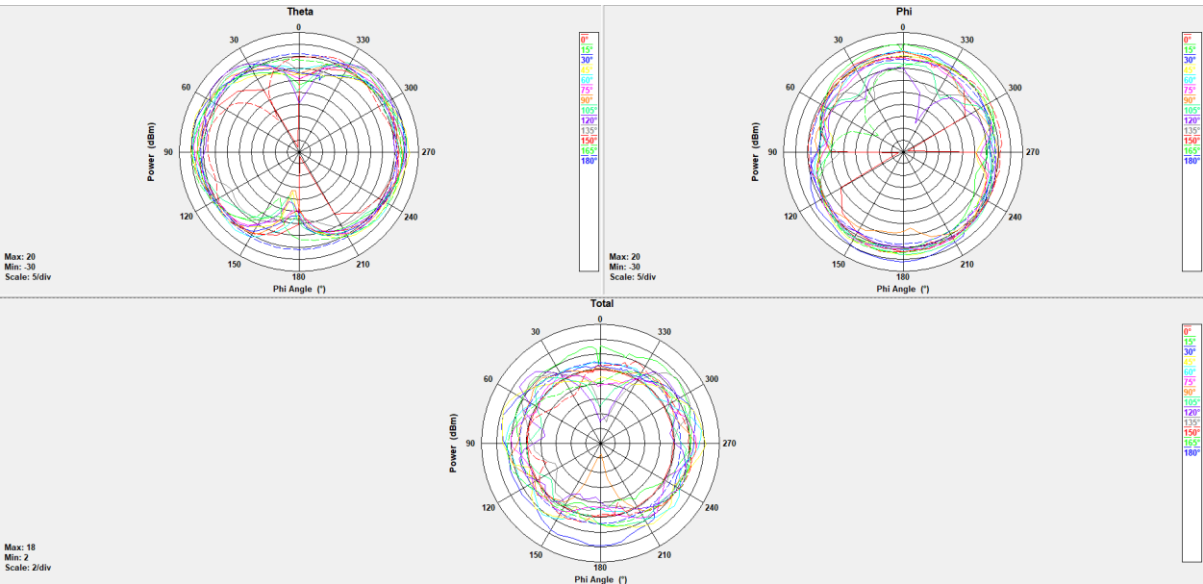


Figure 2. CHAIN1, 2.4GHz

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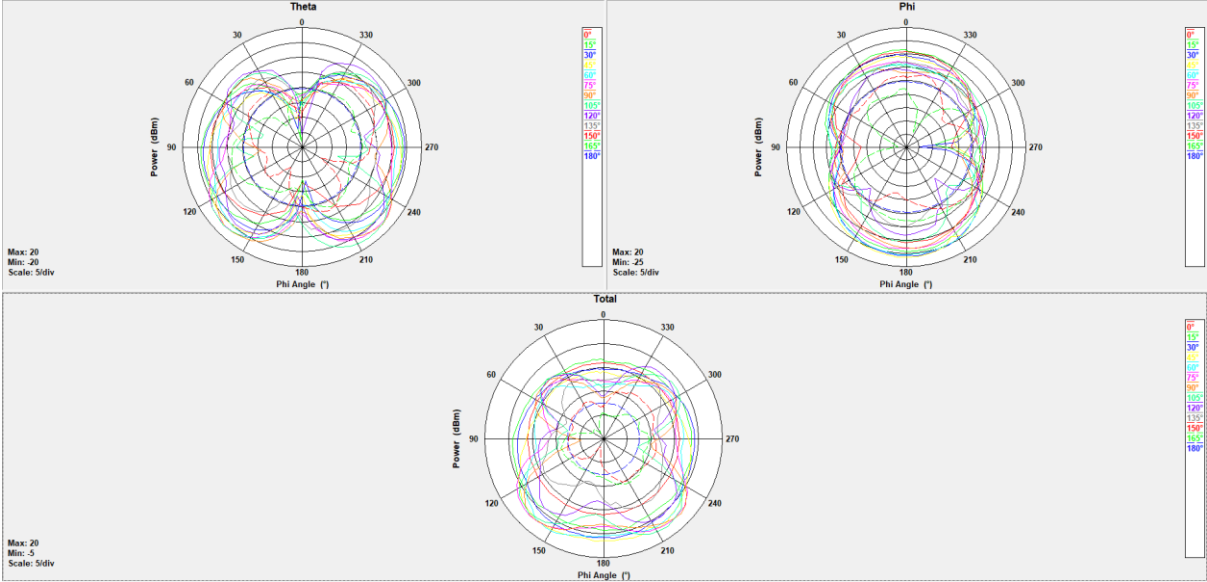


Figure 3. CHAIN2, 2.4GHz

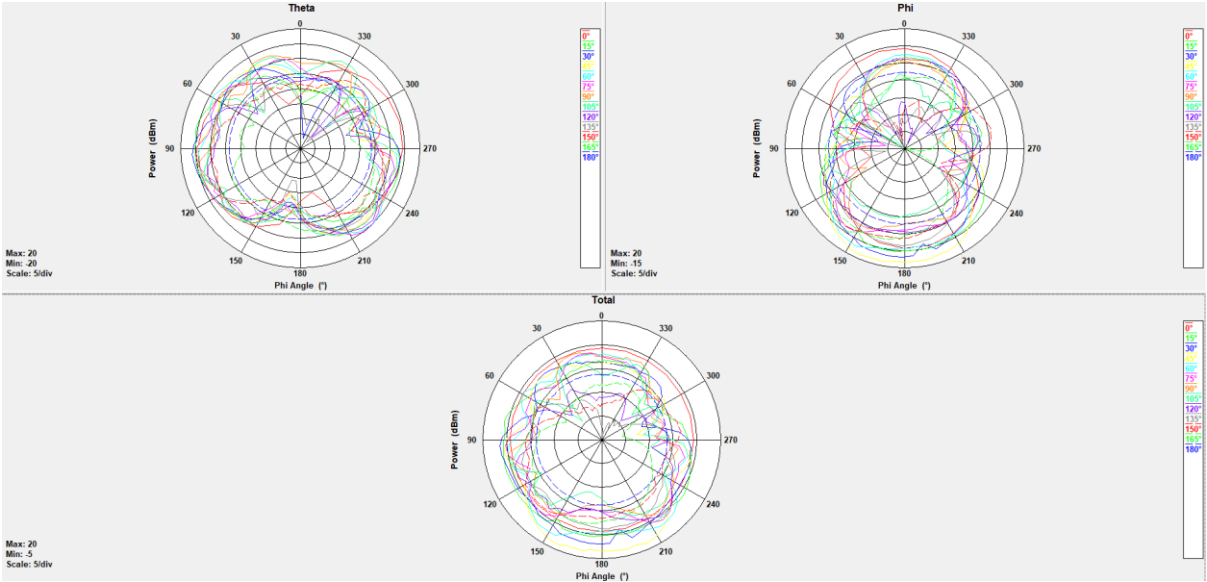


Figure 4. CHAIN1, 5GHz

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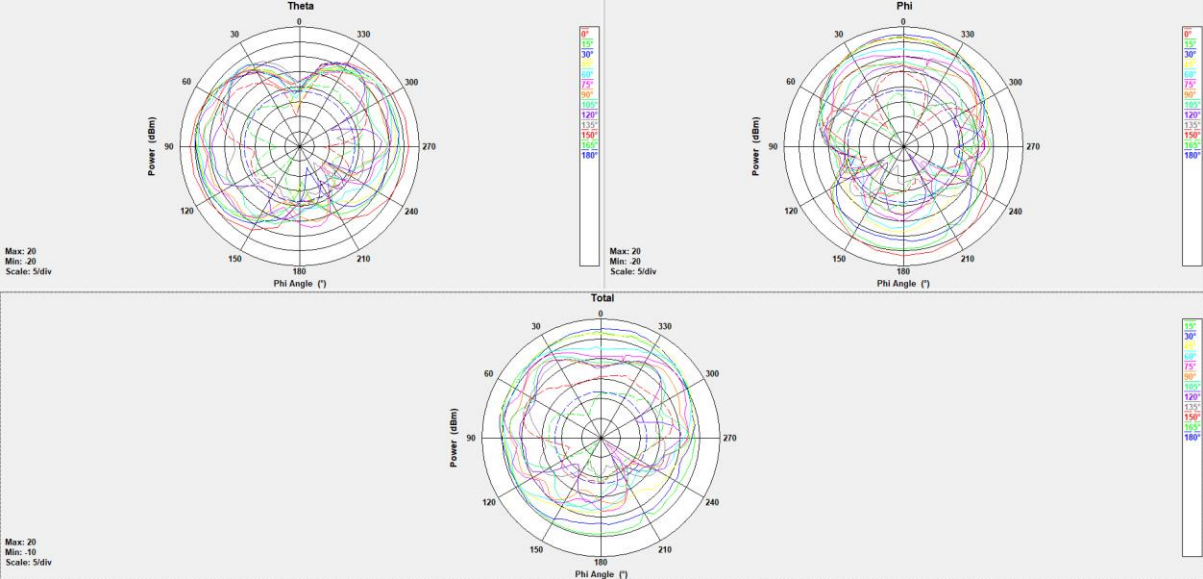


Figure 5. CHAIN2, 5GHz

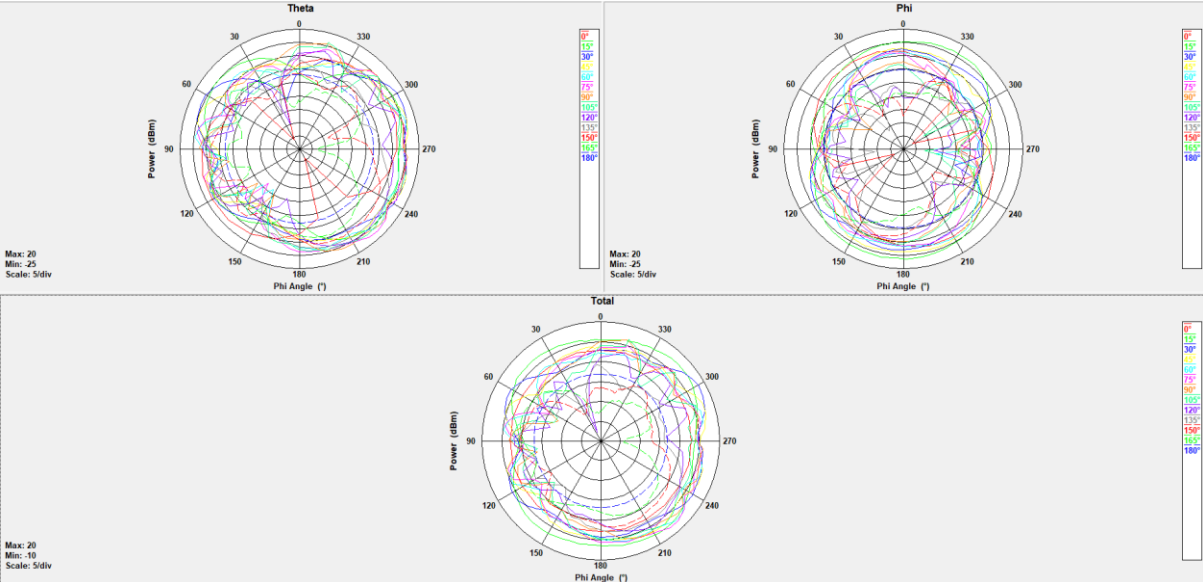


Figure 6. CHAIN1, 6GHz

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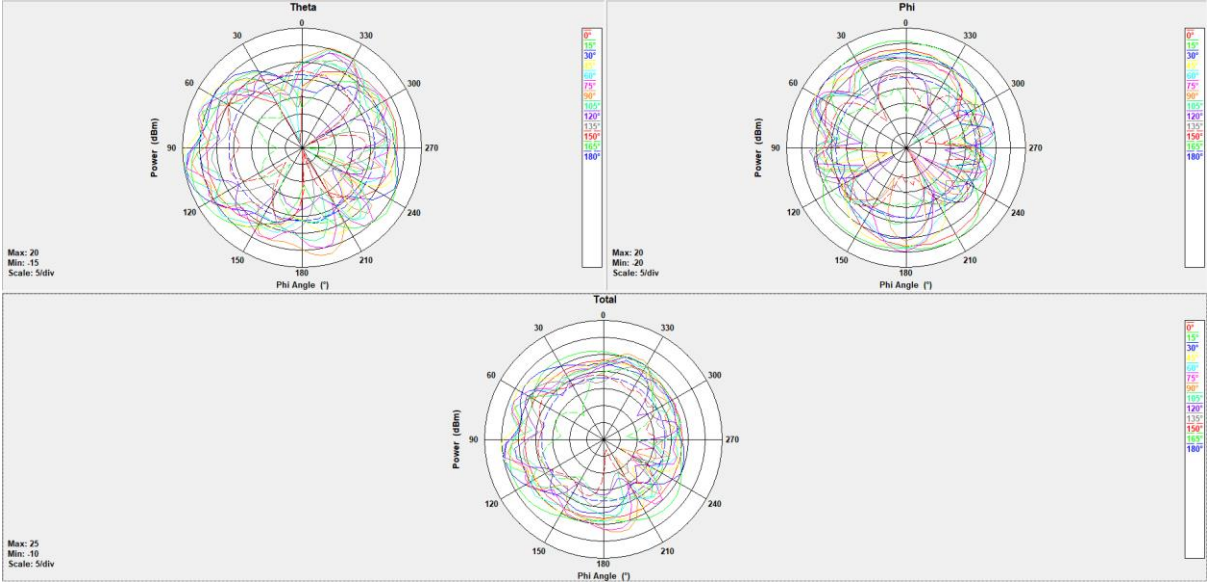


Figure 7. CHAIN2, 6GHz

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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	2024-06-06	TKurj	First release	