

Aava Mobile Ltd. CONFIDENTIAL	 www.aavamobile.com	Document No:
Title: INARI-D-8-WIG-1 WLAN antenna specification		Revision: A
Prepared by: <i>TKurj</i>		Issue Date: <2025-03-28>

INARI-D-8-WIG-1

WLAN Antenna specification

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INARI-D-8-WIG-1 WLAN ANTENNA

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1. INARI-D-8-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

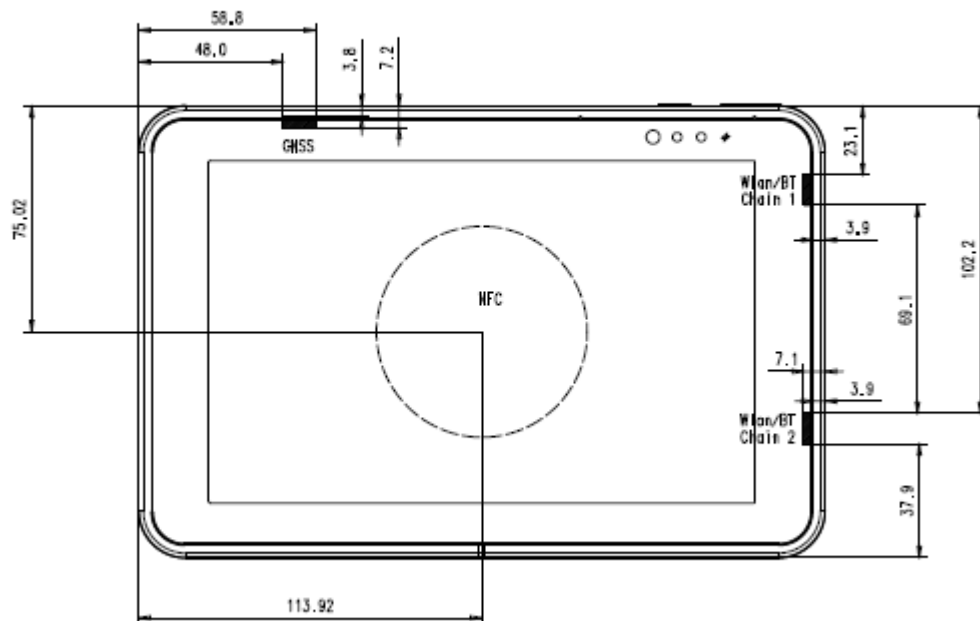


Figure 1. WLAN Antenna locations (front)

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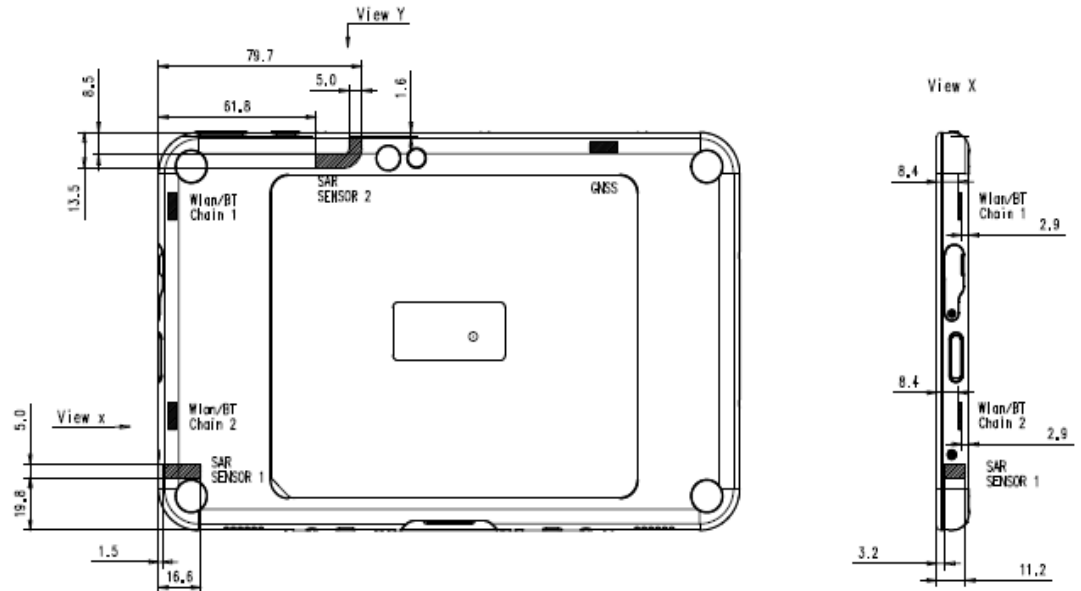


Figure 2. WLAN Antenna locations (back)

1. 3. VSWR

WLAN1	2.4GHz			5GHz			6GHz				
Frequency/MHz	2412	2442	2472	5180	5500	5805	6175	6475	6695	6995	7115
Channel	1	7	13	36	100	161	45	105	149	209	233
VSWR	1.4	1.5	1.7	1.6	1.6	1.7	1.2	1.2	1.3	2.6	2.4
WLAN2	2.4GHz			5GHz			6GHz				
Frequency/MHz	2412	2442	2472	5180	5500	5805	6175	6475	6695	6995	7115
Channel	1	7	13	36	100	161	45	105	149	209	233
VSWR	1.1	1.2	1.4	3.0	3.0	1.7	2.1	1.3	1.8	2.8	2.7

1. 4. Peak Gain

WLAN1	2.4GHz			5GHz			6GHz				
Frequency/MHz	2412	2442	2472	5180	5500	5805	6175	6475	6695	6995	7115
Channel	1	7	13	36	100	161	45	105	149	209	233
Gain (dBi)	0.6	1.0	1.1	2.8	3.0	2.9	2.4	0.8	2.8	2.9	3.0
WLAN2	2.4GHz			5GHz			6GHz				
Frequency/MHz	2412	2442	2472	5180	5500	5805	6175	6475	6695	6995	7115
Channel	1	7	13	36	100	161	45	105	149	209	233
Gain (dBi)	-0.7	-0.7	0.5	2.8	2.9	2.9	1.7	0.4	2.6	2.8	2.8

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

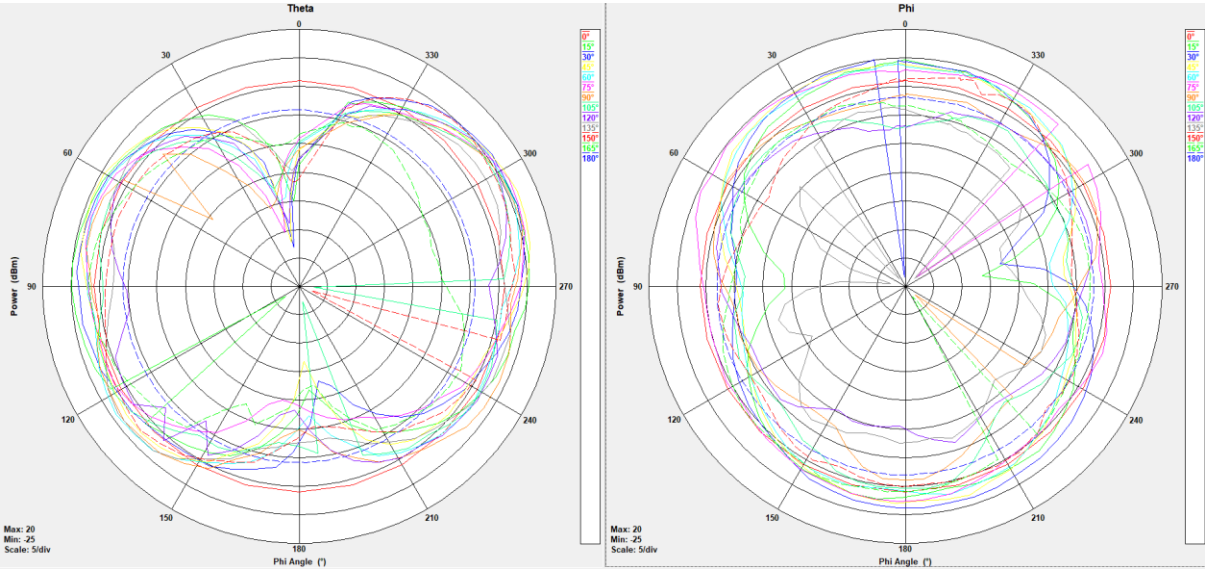


Figure 3. WLAN1, 2.4GHz

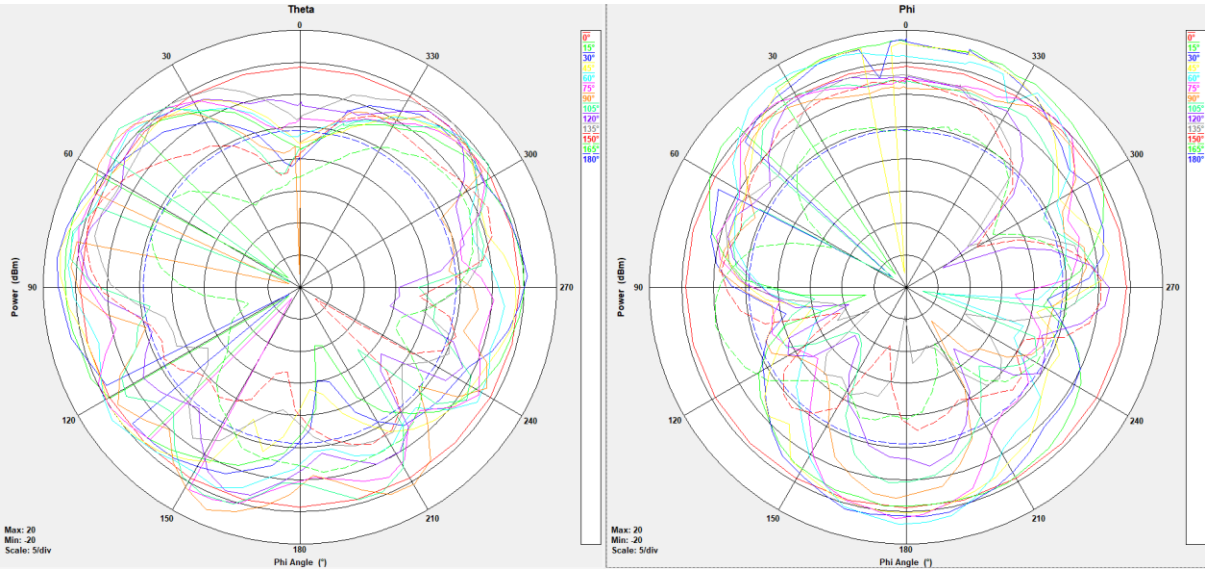


Figure 4. WLAN1, 5GHz

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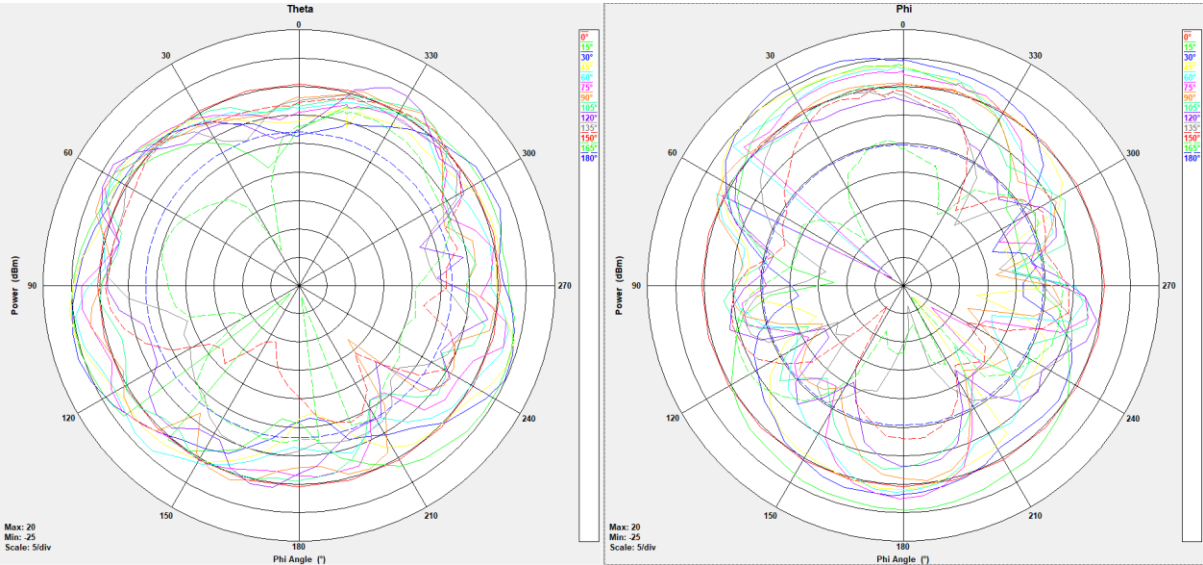


Figure 5. WLAN1, 6GHz

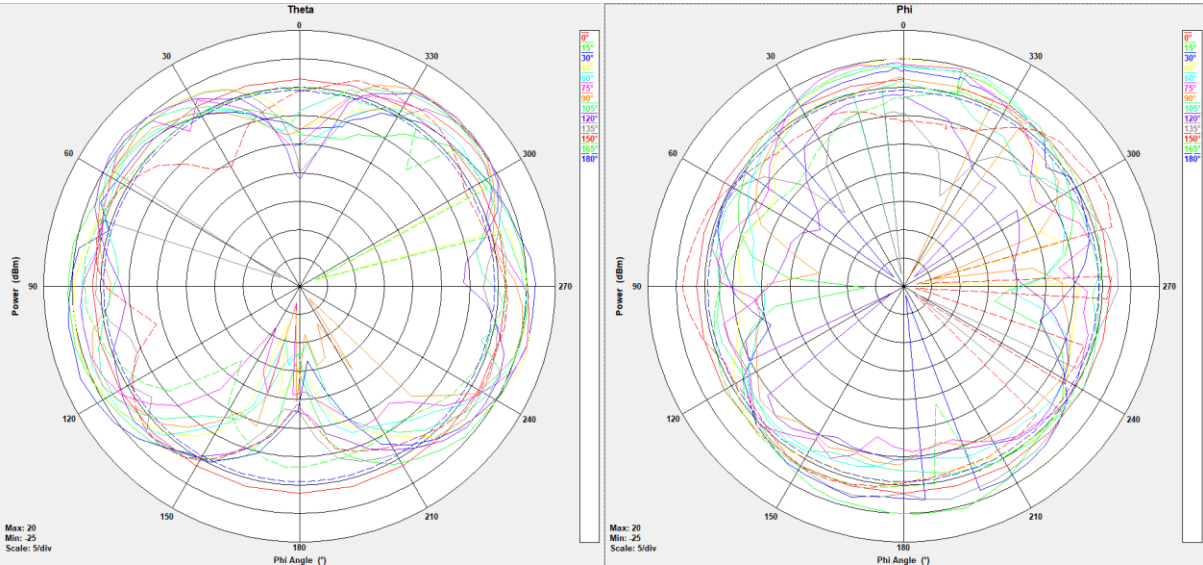


Figure 6. WLAN2, 2.4GHz

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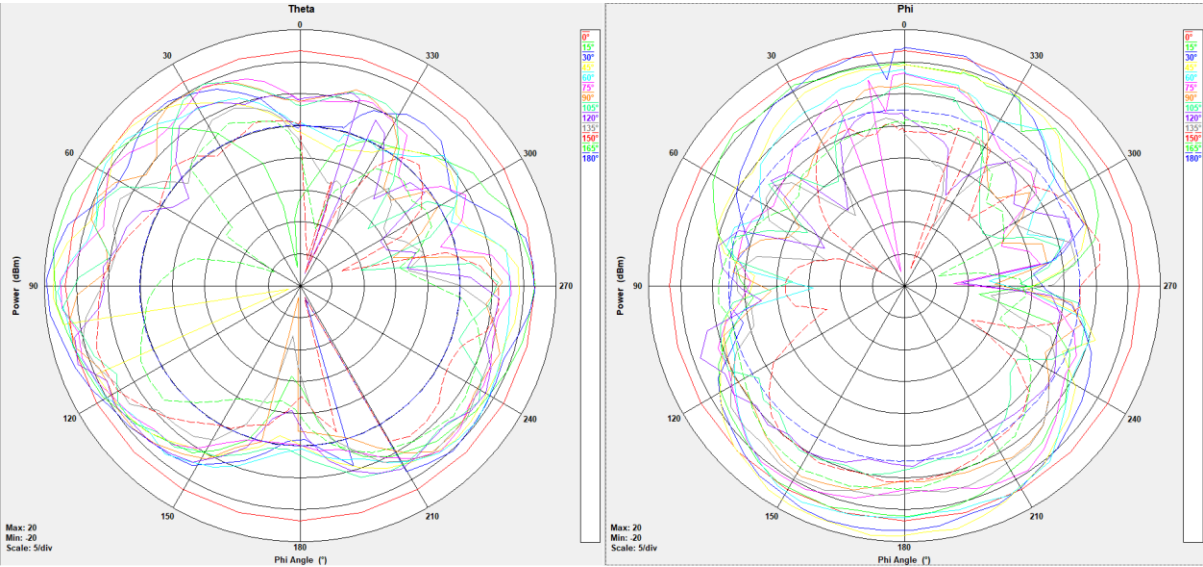


Figure 7. WLAN2, 5GHz

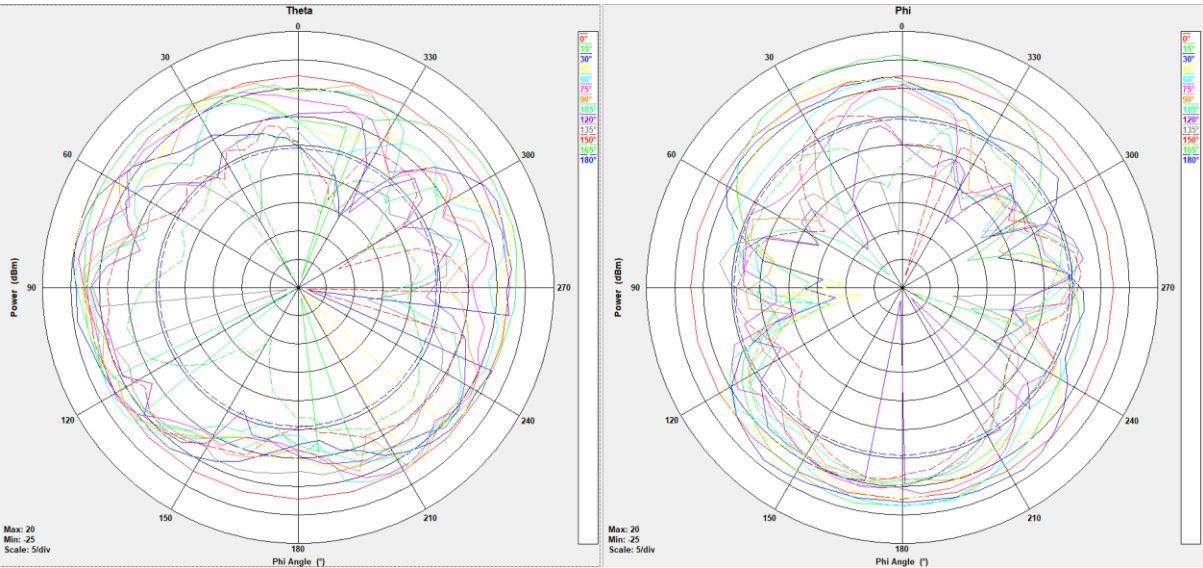


Figure 8. WLAN2, 6GHz

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1. 6. Change History

Version (Rev X)	Date (YYYY-MM-DD)	Author	Change Reason or CR No.	Modify Contents and Location
Rev A	2025-03-28	TKurj	First release	