Sec.Level Confidential

Antenna Report
Antenna model: HDT575

Testing Date: 2024.09.20
Report Date : 2024.09.23

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Test Equipment

Passive	
Antenna Type: Antenna Model:	PIFA antenna HDT575
Antenna Gain	1.91 dBi
Test Equipment	E5071C ENA Vector Network Analyzer – Keysight
Test Chamber	ETS-lindgren_AMS-8500 Antenna Measurement
Tester	Leo-Wn CHEN
Test Software	ETS-Lindgren EMQuest
Manufacturer	Corsair Memory, Inc.
Manufacturer Address.	115 North McCarthy Blvd. Milpitas CA 95035 United States Of America

Test Instruments

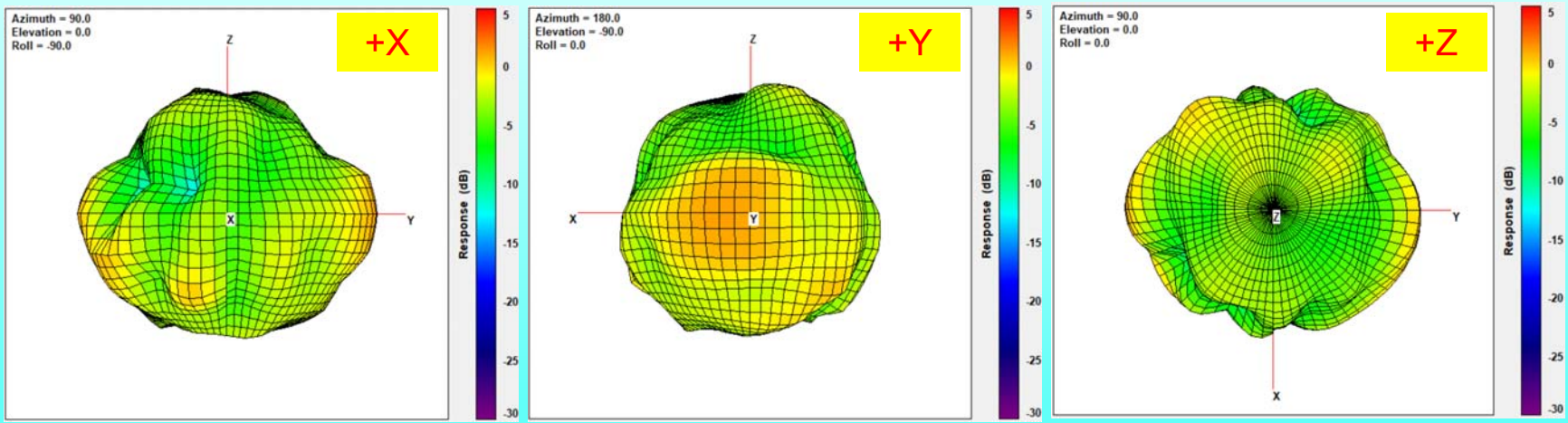
TYPE OF EQUIPMENT	MODEL	MANUFACTURER	CALIBRATION DATE	CALIBRATION DUE DATE
Measurement Software	EM-Quest 1.16	ETS-Lindgren	N/A	N/A
Vector Network Analyzer Customer provided unit	5071C S/N: MY46104190	Keysight	2024/5/31	2025/5/30

Antenna Efficiency

Free Space

Model	***HDT575_HS_3D_Gain_FS_2300-2600MHz_Continuous 3D***								
Test / Position	***Gain / FS***								
Frequency	**2400**	**2410**	**2420**	**2430**	**2440**	**2450**	**2460**	**2470**	**2480**
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-2.85	-2.81	-2.81	-2.87	-2.89	-2.93	-3.00	-3.10	-3.12
Peak EIRP (dBm)	1.91	1.85	1.65	1.62	1.65	1.61	1.60	1.51	1.59
Directivity (dBi)	4.75	4.66	4.46	4.49	4.53	4.54	4.60	4.61	4.71
Efficiency (dB)	-2.85	-2.81	-2.81	-2.87	-2.89	-2.93	-3.00	-3.10	-3.12
Efficiency (%)	**51.91**	**52.31**	**52.38**	**51.64**	**51.45**	**50.96**	**50.07**	**49.02**	**48.72**
Gain (dBi)	**1.91**	**1.85**	**1.65**	**1.62**	**1.65**	**1.61**	**1.60**	**1.51**	**1.59**

Radiation Pattern



Measurements Description

Conducted Measurements

Conducted measurements was done using Network Analyzer – Keysight, the Return Loss of the Antenna was obtained to ensure the efficiency over the operation frequency.

Antenna Radiation Patten Measurements

Radiation Pattern

Measurements was done in the ETS-lindgren anechoic chamber through radiation, the earbud was set to continuous radiation and the AMS-8500 receive the RF power in 360degree angel with rotation of EUT.

Antenna Gain Calculation

The antenna gain was calculated as the difference between the measured Peak EIRP(dBm) and Ant. port input pwr(dBm) in previous page.