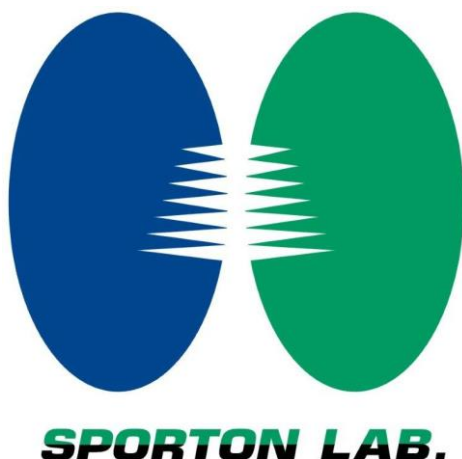




OTA Antenna Performance Data Summary

REPORT NO. : OQ362612
APPLICANT : GigaDevice
MODEL NAME : GD32VW553_MD1_1V0
EQUIPMENT NAME : GD32VW553_MD1_PCB_Antenna
DEVICE RECEIVING DATE : Jun. 30, 2023
TEST DATE : Jun. 30, 2023

Reviewed by:

Feynman Liu

Feynman Liu / Vice Manager

Approved by:

Kevin Chu

Kevin Chu / Manager

Sporton International Inc. (Kunshan)

***No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China***



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Revision History

DATA NO.	VERSION	DESCRIPTION	ISSUED DATE
OQ362612	1.0	Initial issue of data summary	Aug. 07, 2023

1. Administration Data

1.1 Testing Laboratory

Test Site	Sporton International Inc. (Kunshan)
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958
Chamber	☐ OTA01-KS ☐ OTA02-KS ☐ OTA03-KS ☒ OTA04-KS ☐ OTA05-KS

■: Indicates the chamber(s) used in this data summary

1.2 Applicant

Company Name	GigaDevice
Address	Building No. 8, IC Park, No. 9 Fenghao East Road, Haidian District, Beijing 100094, China

1.3 Test Equipment List

Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Last Cal.
Network Analyzer	Agilent	E5071C	MY46317418	2023/1/5	2024/1/4
Test Software	ETS-Lindgren	EMQ-100	1192	NCR	NCR
Switch Control	ETS-Lindgren	EMCenter	00160100	NCR	NCR
Diagonal Dual Polarized Horn	ETS-Lindgren	3164-08	00099205	NCR	NCR
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00066604	NCR	NCR
Medium Duty Holder	ETS-Lindgren	2015	N/A	NCR	NCR

2. Summary of Test Result of Antenna Gain

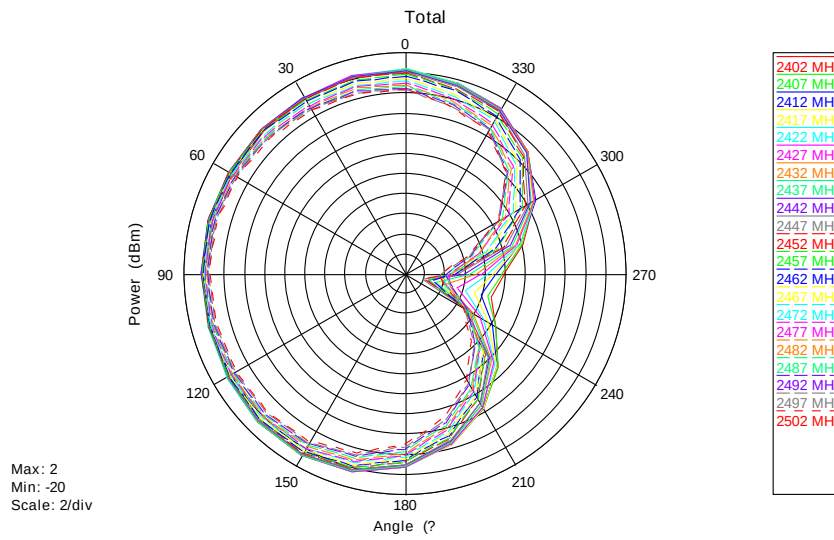
Test	Position	Frequency (MHz)	Peak Gain (dBi)	Directivity (dBi)	Efficiency (dBi)	Efficiency (%)	Note
Antenna Gain	Free Space	2402	2.0	3.6	-1.7	68.0	15°
		2407	2.0	3.6	-1.6	68.5	
		2412	2.0	3.6	-1.7	68.3	
		2417	2.0	3.6	-1.6	68.5	
		2422	2.1	3.7	-1.6	68.9	
		2427	2.1	3.7	-1.6	68.5	
		2432	2.1	3.8	-1.7	68.0	
		2437	2.1	3.8	-1.7	67.9	
		2442	2.1	3.9	-1.7	67.1	
		2447	2.1	3.9	-1.8	66.2	
		2452	2.0	3.9	-1.9	64.8	
		2457	2.0	3.9	-1.9	64.1	
		2462	1.9	4.0	-2.0	62.9	
		2467	1.8	4.0	-2.1	61.0	
		2472	1.7	4.0	-2.2	59.9	
		2477	1.6	3.9	-2.3	58.4	
		2482	1.4	3.9	-2.5	56.8	
		2487	1.3	3.9	-2.6	55.3	
		2492	1.2	3.8	-2.7	54.1	
		2497	1.0	3.8	-2.8	52.6	
		2502	0.9	3.8	-2.9	51.2	

3. Free Space Position Antenna Gain Patterns

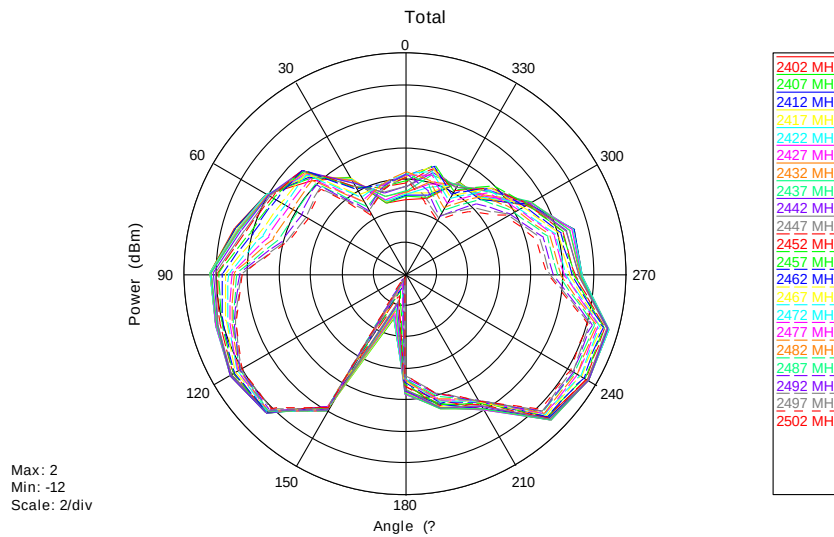
Please refer to as below.

2D Patterns

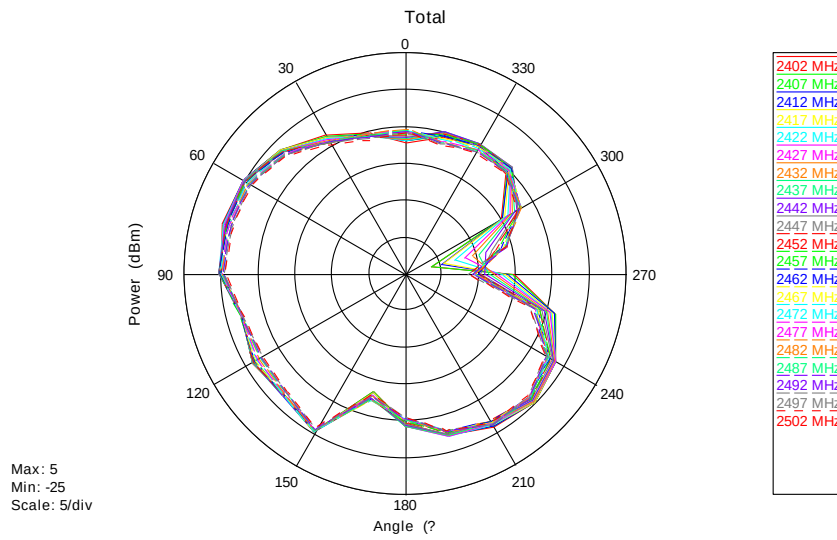
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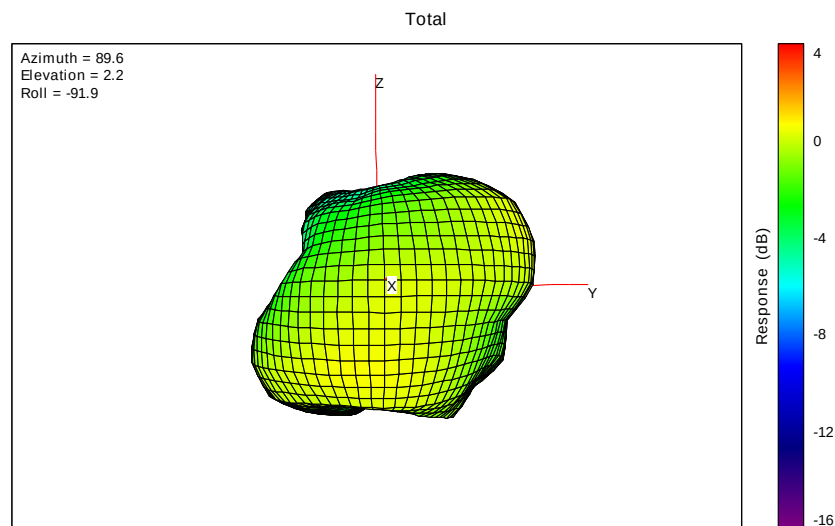
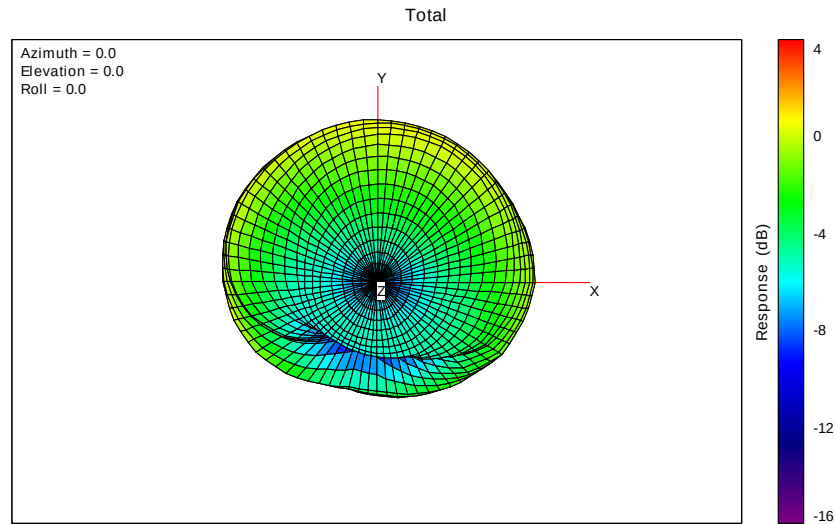
E1

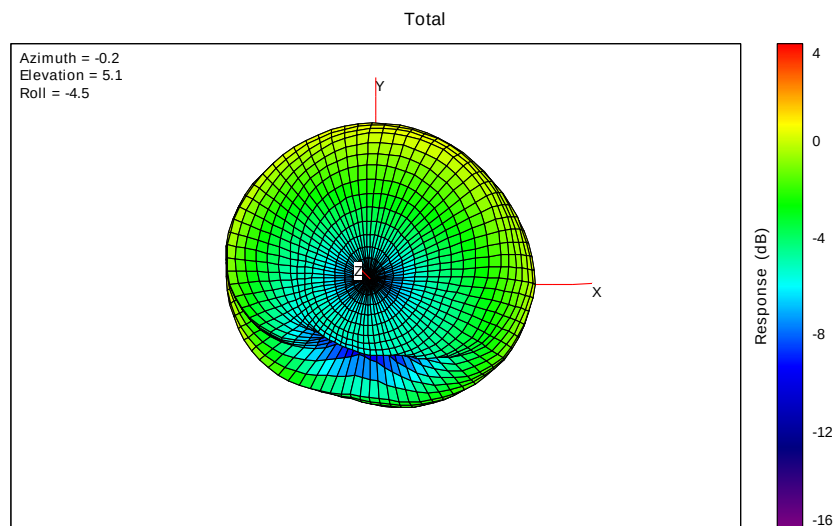
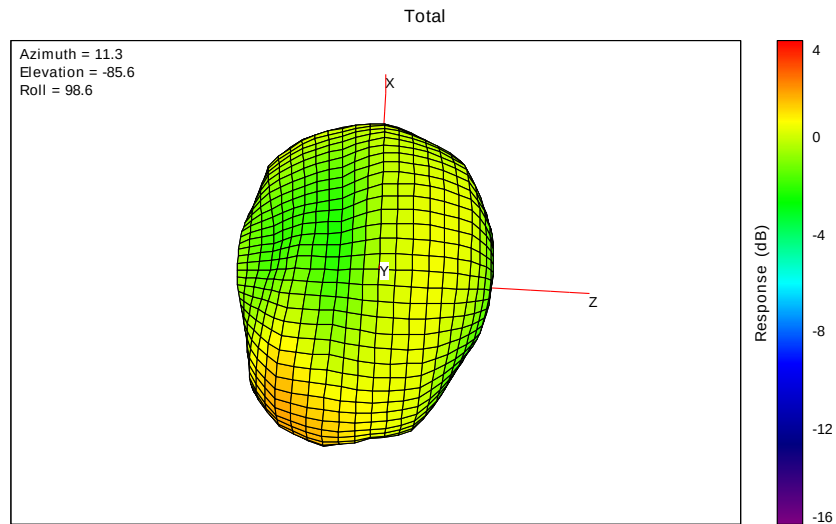


E2



3D Patterns





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