



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Rev.: 01
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ANTENNA PASSIVE TEST REPORT

Application No. SZOA2605000109ET
Applicant ATOMIC MONKEY PRODUCTS LTD.
Manufacturer Atomic Monkey Products Ltd.
Product Name Plastic electronic toys
Model No. SPY VIDEO CAR
Standards ANSI/IEEE Std 149-2021
Date Initial Sample(s) Received May 6, 2026
Testing Start Date May 6, 2026
Testing Finish Date May 6, 2026
Report Issue Date May 13, 2026

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Yuanyu Luo

Ervin Li

Prepared by: Yuanyu Luo/ Test Engineer

Approved by: Ervin Li/ Technical Manager



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Revision History

Revision	Issue Date	Description
01	May 13, 2026	Initial creation of report



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1 General Information

1.1 Testing Laboratory

Test Lab	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
Contact	Ervin Li
Tel.	+86 18823369694
Fax	+86-755-25328600
E-mail	Ervin.Li@sgs.com

1.2 Details of Applicant

Applicant's Name	Atomic Monkey Products Ltd.
Applicant's Address	Room 222, 1/F, Fonda Industrial Building, 37-39 Au Pui Wan Street, Fo Tan, N.T. Hong Kong
Contact	Wilson Mak
Tel.	(852) 31052282
Fax	N/A
E-mail	Wilson@atomicmonkeyproducts.com

1.3 Details of Manufacturer

Manufacturer's Name	Atomic Monkey Products Ltd.
Manufacturer's Address	Room 222, 1/F, Fonda Industrial Building, 37-39 Au Pui Wan Street, Fo Tan, N.T. Hong Kong
Contact	Wilson Mak
Tel.	(852) 31052282
Fax	N/A
E-mail	Wilson@atomicmonkeyproducts.com



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1.4 General Description of EUT

Device Description:	Plastic electronic toys
Device Manufacturer:	Atomic Monkey Products Ltd.
Device Model:	SPY VIDEO CAR
Hardware Version:	3000-06-4302309_V1
Software Version:	Wifi B8.2220.HOT07.KADINGCAR
ANT Dimension:	ANT1&ANT2: 85±2mm WIFI ANT: 35mm
Air Interface Supported	WIFI:2412-2472MHz
Antenna type:	Copper tube antenna

1.5 Test Procedure

Testing is performed according to the **ANSI/IEEE Std 149-2021**.



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1.6 Test Specification

Identity	Document Title
ANSI/IEEE Std 149-2021	IEEE Standard Test Procedures for Antennas

1.7 Laboratory Environment

Temperature	Min. =19°C , Max. = 25°C	
Relative humidity	Min. =40% , Max. =72%	
Shield effect	0.7-6GHz	> 100dB
Ground resistance	<0.5Ω	



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Shenzhen Branch / Wireless Laboratory

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2 OTA Measurements System Configuration

2.1 Test Configuration

Testing Condition:

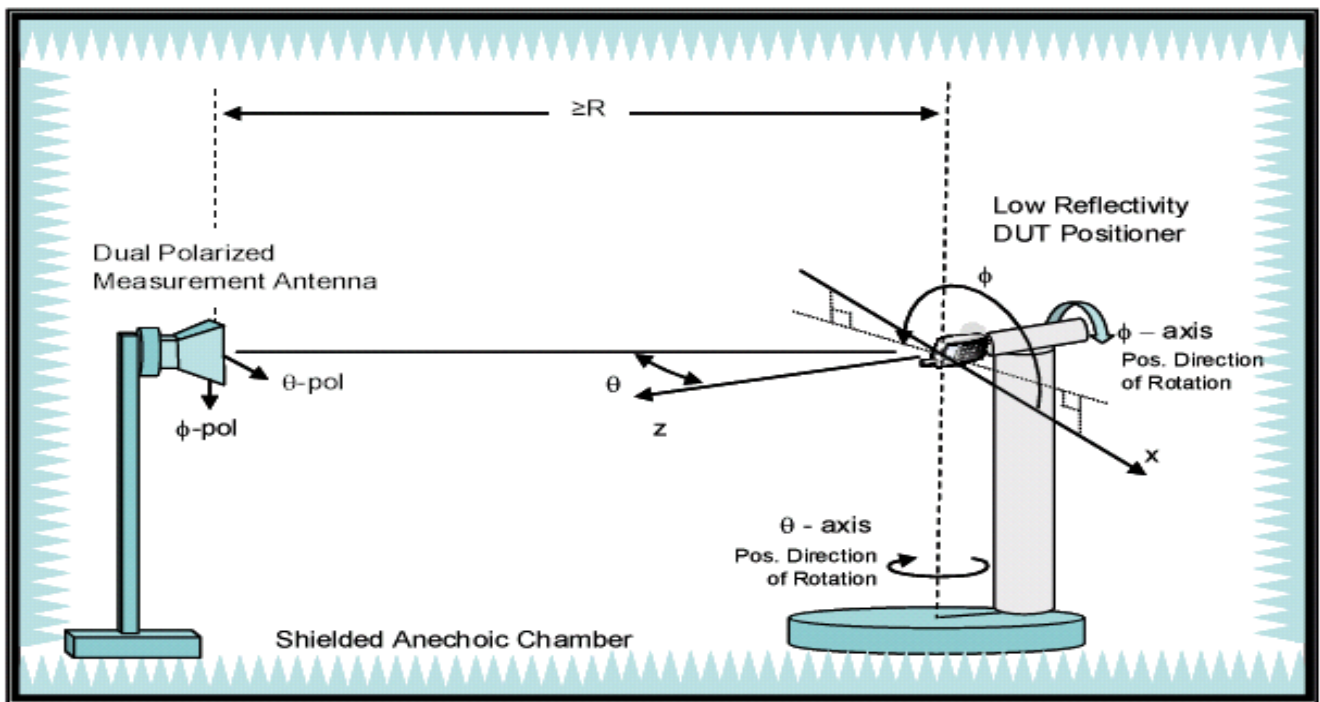
- Temperature: $22 \pm 3^\circ\text{C}$
- Humidity: $< 80\%$

Measurement Facility:

- Measurement Chamber: ETS-Lindgren 3D fully anechoic chamber and its measuring system (AMS-8500)

Measurements are performed in a ETS-Lindgren AMS-8500 3D fully anechoic test system. The test system includes a high-performance RF-shielded, rectangular anechoic chamber, a Multi-Axis Positioning System (MAPS), and EMQuestTMEMQ-100 data acquisition and analysis software. The geometry of the setup is specified below for reference.

Typical Setup for ETS-Lindgren AMS-8500:



Inside View



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3 Test Equipment List

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	E5071C S/N MY46523591	Keysight	2025/12/15	2026/12/14
Quad-Ridge Horn Antenna 700 MHz-10 GHz	EMCO 3164-08 S/N 161915	ETS-Lindgren L.P.	N/A	N/A
MAPS Controller	EMCENTER S/N 160485	ETS-Lindgren L.P.	N/A	N/A
SAM V4.5BS Head Phantom	Head Phantom S/N 3609	SPEAG	NCR	NCR

Definition of Acronyms:

NCR: No Calibration Requirement.



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4 Measurement Uncertainty

Item	2400-2500 MHz (dB)
Gain	0.88
Efficiency	0.88
Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2	



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5 Test Results

ANT1			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-4.68	34.03	0.50
2405	-4.64	34.33	0.55
2410	-4.69	34.00	0.81
2415	-4.72	33.73	0.80
2420	-4.72	33.69	0.99
2425	-4.60	34.69	1.09
2430	-4.76	33.39	1.49
2435	-4.75	33.47	1.18
2440	-4.79	33.20	1.28
2445	-4.82	32.96	1.52
2450	-4.81	33.02	1.36
2455	-4.75	33.50	1.85
2460	-4.84	32.80	1.86
2465	-4.93	32.15	1.88
2470	-4.90	32.33	1.54
2475	-4.86	32.63	2.07
2480	-4.97	31.87	1.74
2485	-4.91	32.28	1.80
2490	-4.92	32.21	1.83
2495	-5.01	31.57	2.02
2500	-5.01	31.54	1.94

ANT2			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-4.26	37.46	0.05
2405	-4.25	37.61	-0.24
2410	-4.44	35.98	-0.29
2415	-4.49	35.57	-0.42
2420	-4.56	34.98	-0.49
2425	-4.62	34.47	-0.35
2430	-4.72	33.72	-0.79
2435	-4.90	32.39	-1.29
2440	-4.94	32.09	-0.99
2445	-5.01	31.57	-0.94
2450	-5.05	31.28	-0.85
2455	-5.06	31.18	-0.96
2460	-5.16	30.49	-0.80
2465	-5.31	29.46	-1.02
2470	-5.31	29.45	-0.86
2475	-5.32	29.37	-0.93
2480	-5.32	29.34	-0.81
2485	-5.41	28.78	-0.96
2490	-5.31	29.42	-0.76
2495	-5.44	28.59	-0.99
2500	-5.40	28.85	-0.94



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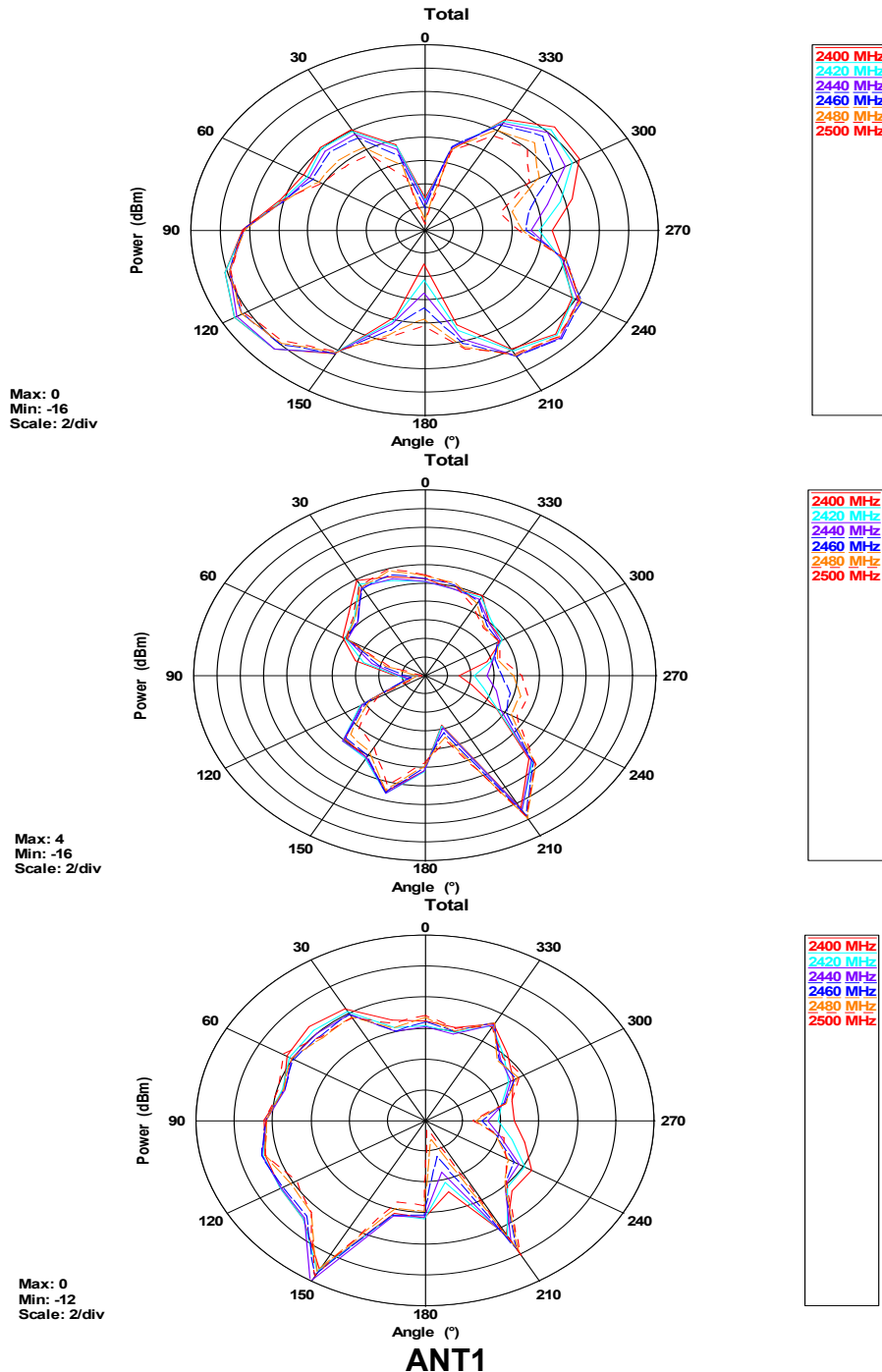
WIFI ANT			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-5.99	25.15	-1.04
2405	-5.71	26.83	-0.63
2410	-5.64	27.30	-1.12
2415	-5.36	29.13	-0.86
2420	-5.20	30.18	-0.93
2425	-4.94	32.09	-0.84
2430	-4.86	32.66	-1.11
2435	-4.75	33.52	-0.94
2440	-4.66	34.20	-1.22
2445	-4.61	34.62	-0.94
2450	-4.65	34.30	-1.20
2455	-4.53	35.27	-0.96
2460	-4.64	34.39	-0.98
2465	-4.68	34.04	-1.13
2470	-4.74	33.54	-0.93
2475	-4.69	33.95	-1.11
2480	-4.74	33.55	-0.88
2485	-4.78	33.30	-1.05
2490	-4.74	33.58	-0.83
2495	-4.80	33.11	-0.91
2500	-4.78	33.26	-0.79



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6 2-D Antenna Pattern



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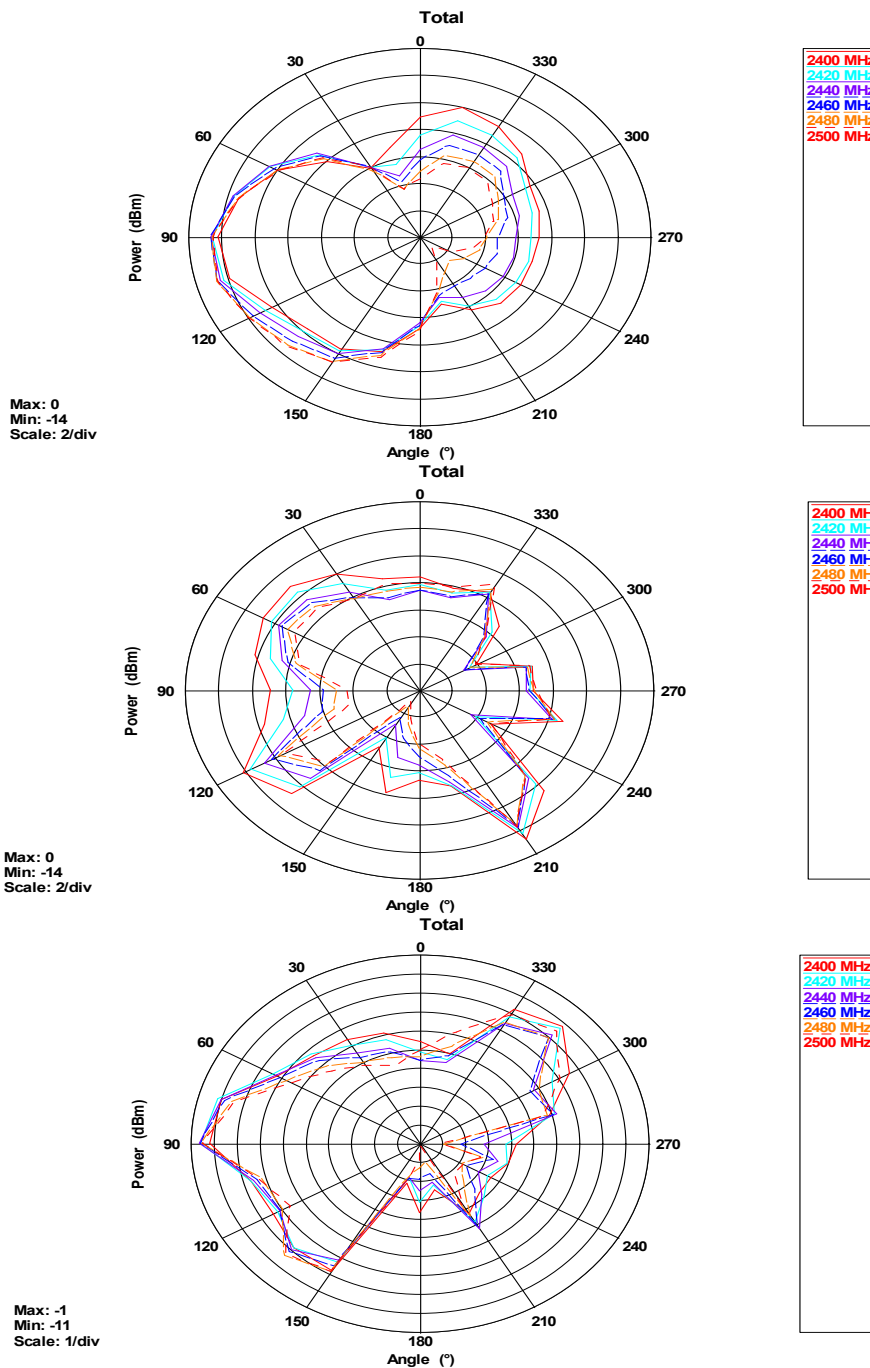


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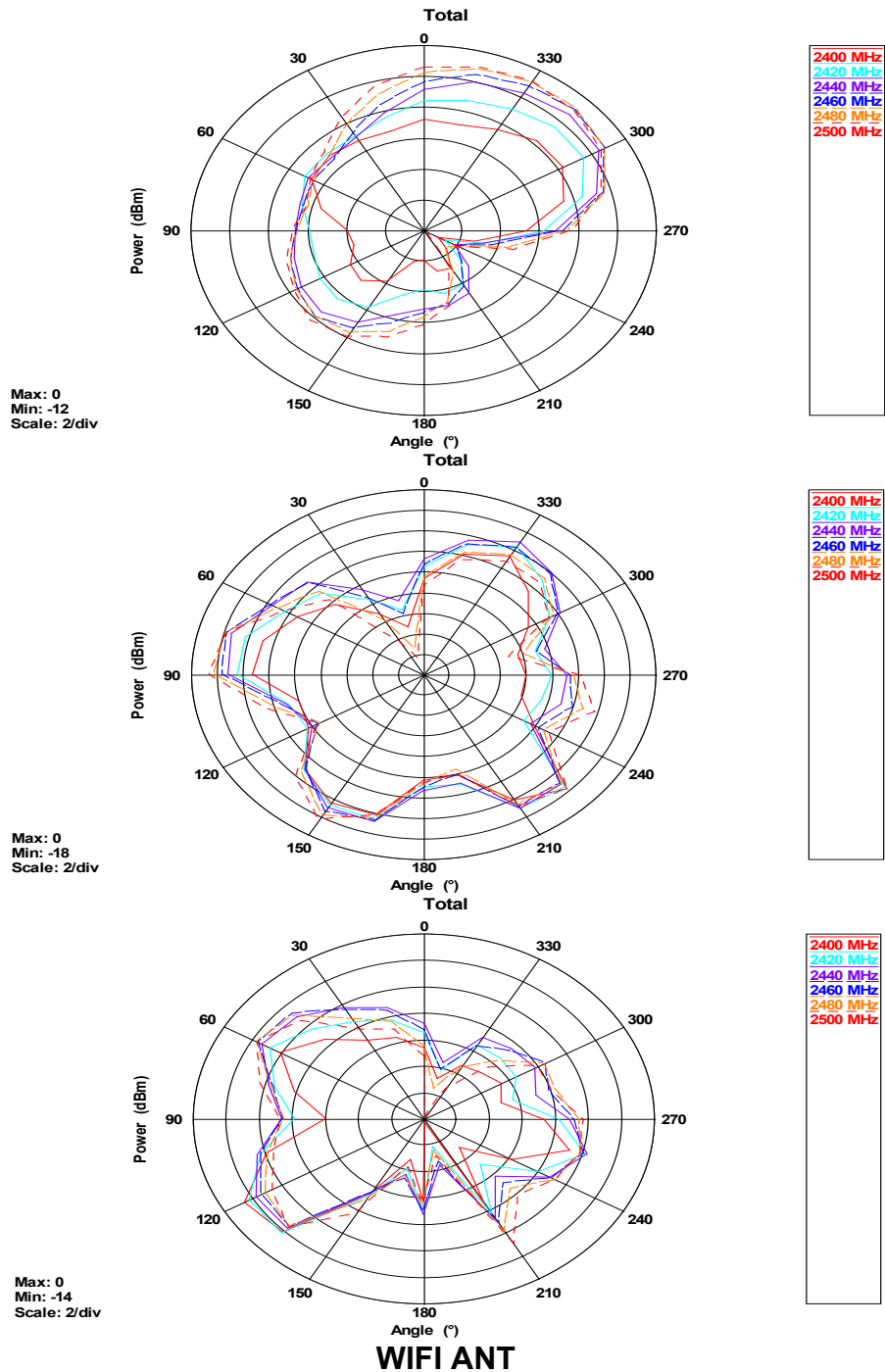
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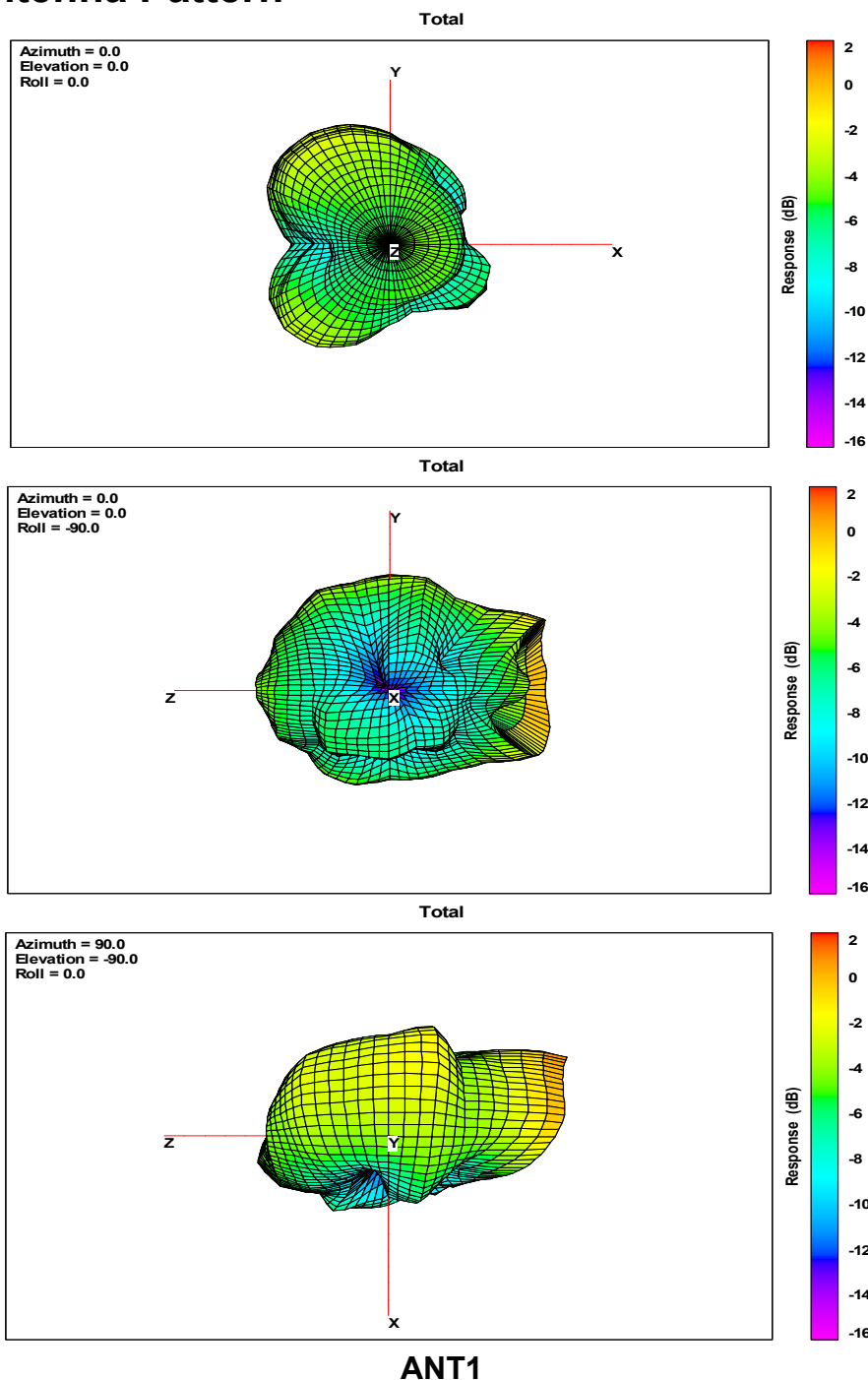


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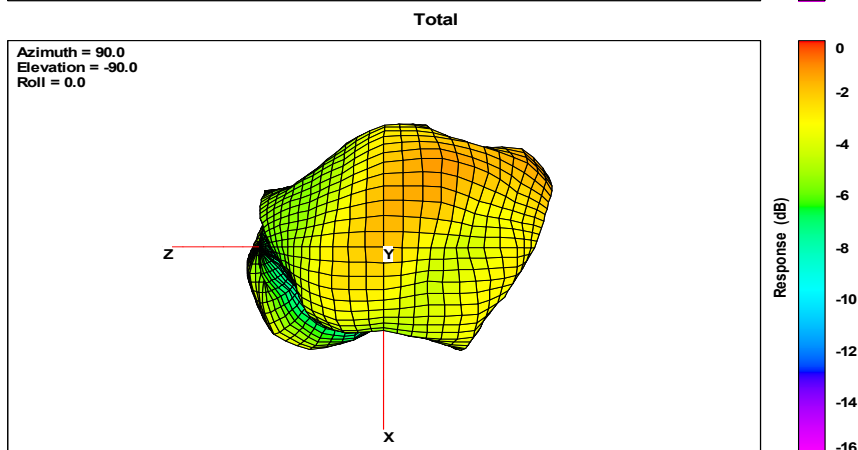
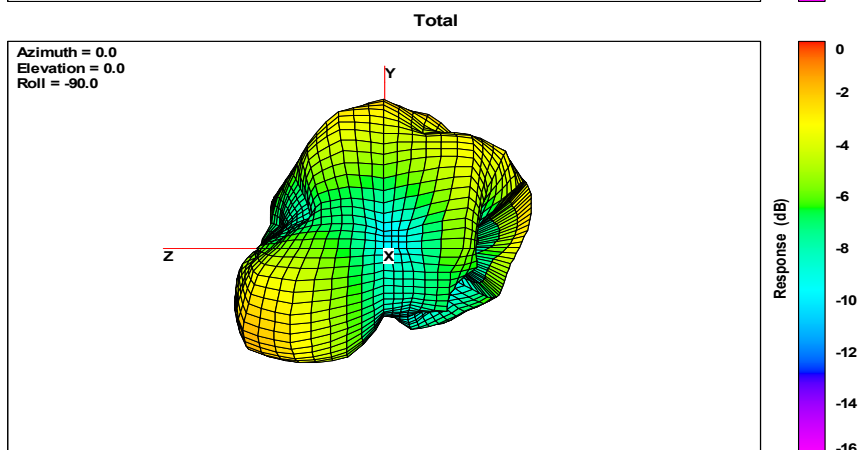
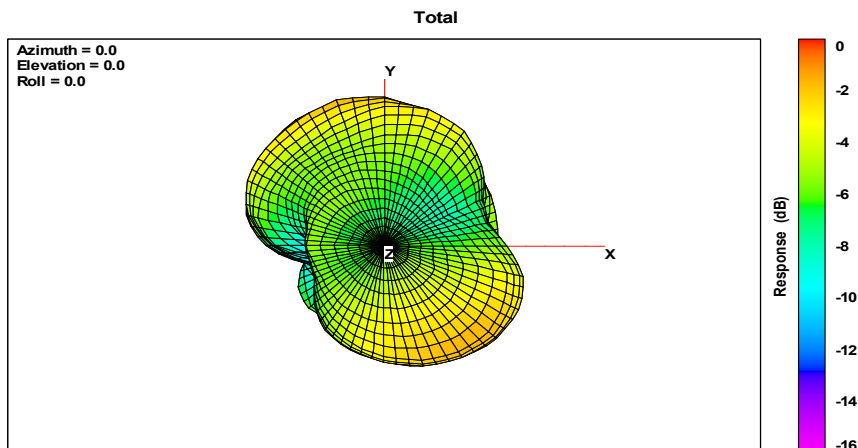
7 3-D Antenna Pattern



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ANT2

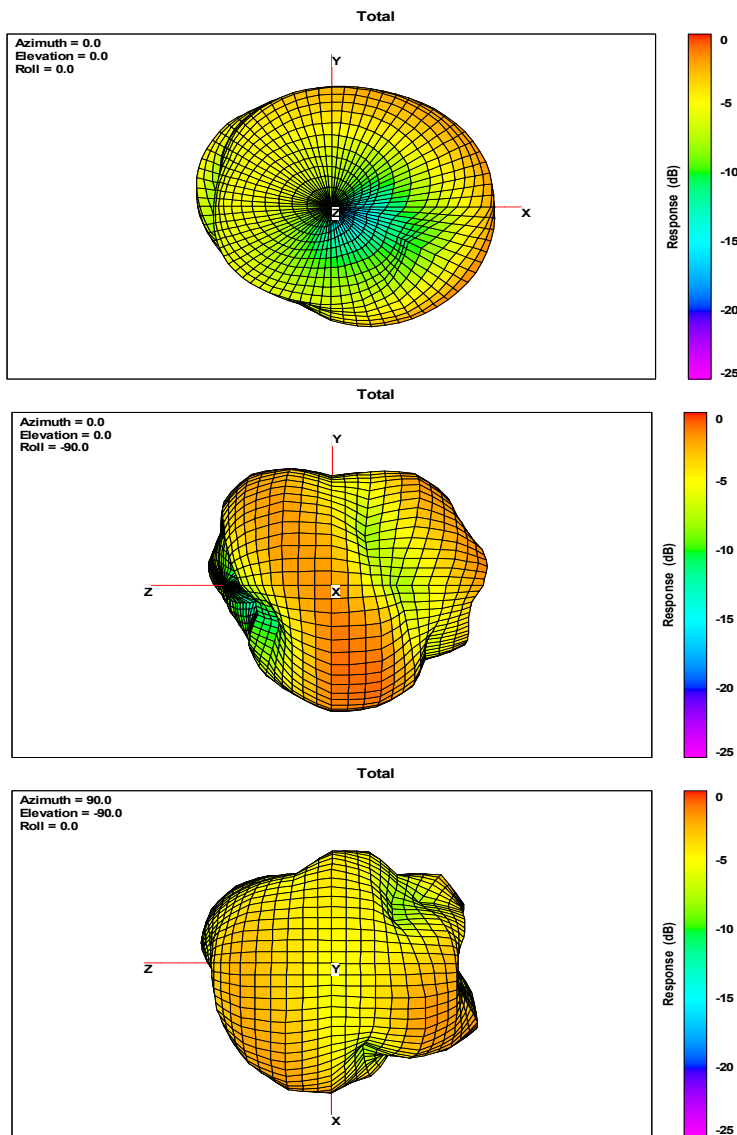


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8 The EUT and Test Configuration

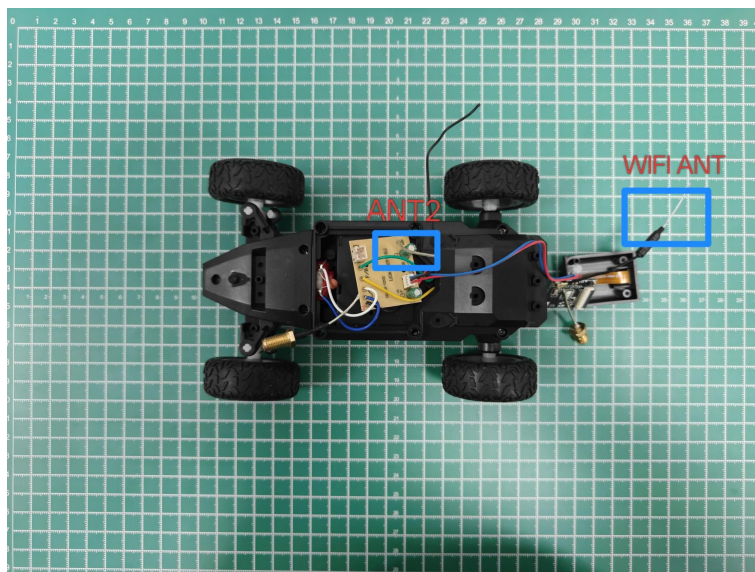


Photo of EUT

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