

# Cybermorph (A00174) Antenna Spec.

*MERRY Sounds Excellent*

*Presented by : Merry*

*Date : 2022.12.14*

# Antenna spec.

## Antenna for Bluetooth/2.4GHz

1) Antenna Material : PCB antenna

(Manufacturer: 柏承科技(昆山)股份有限公司

Plotech Technology(Kunshan)Co.,Ltd.)

(Address: 江蘇省昆山市陸家鎮合丰開發區珠竹路28號)

2) Operating Frequency : 2.4GHz-2.4835GHz

3) Input Impedance : 50Ω

4) Standing-Wave Ratio : 2:1

5) Antenna Gain : 1.58 dBi

6) Polarization : Linear polarization

# Antenna spec.

Antenna for Bluetooth/2.4GHz

7) Table of calibrated equipment : E5071C ENA Vector Network Analyzer –  
Keysight

Calibration Date: 2021/03/25

8) Name of test personnel : Oscar Chu

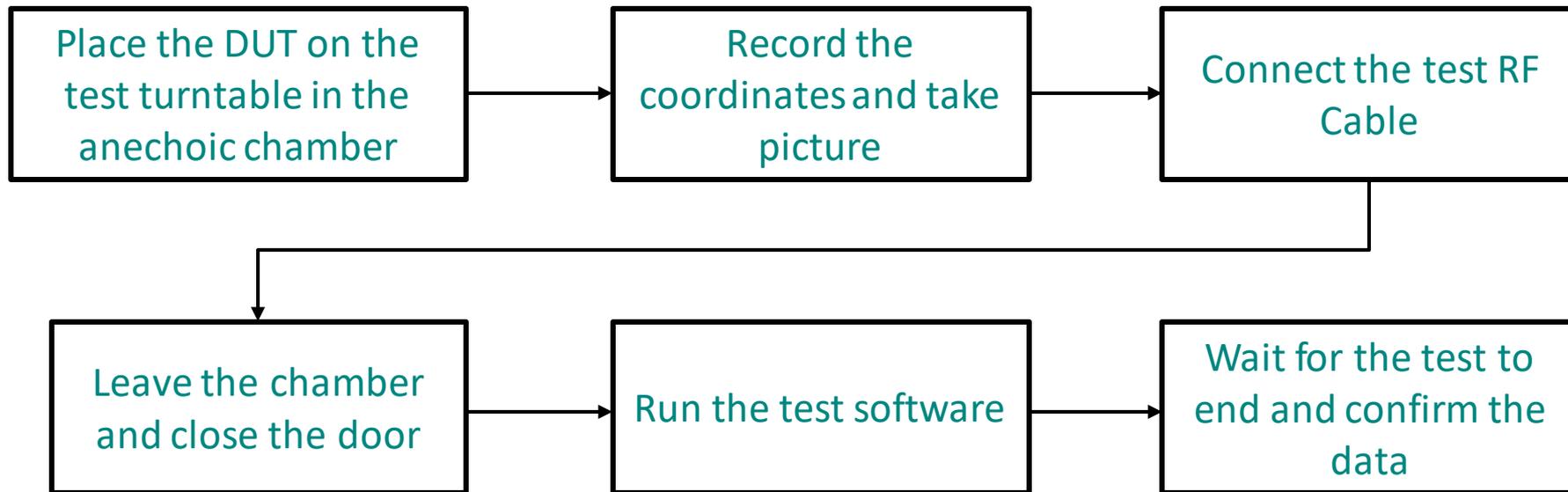
9) Test date: 2022/01/12

10) Name of test software being used : ETS-Lindgren EMQuest

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11 ) description of how measurements are made:



# Antenna Passive Measurement Setup

- Chamber : ETS-Lindgren @新店BV
- Cable loss: 0.5dB

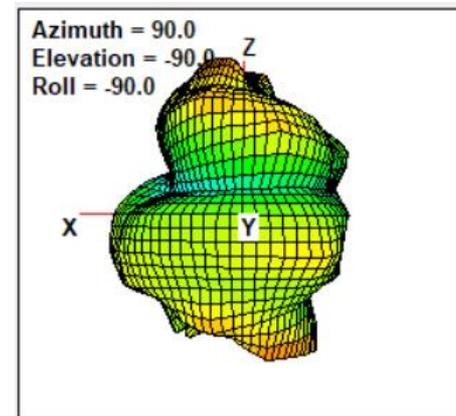
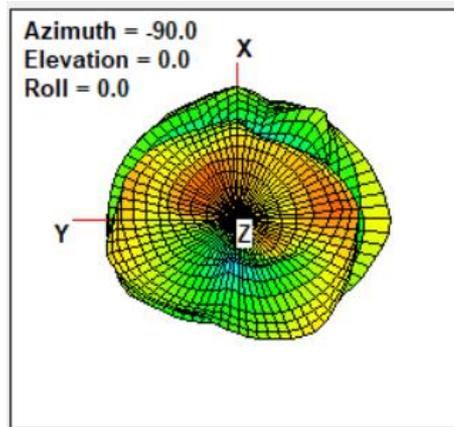
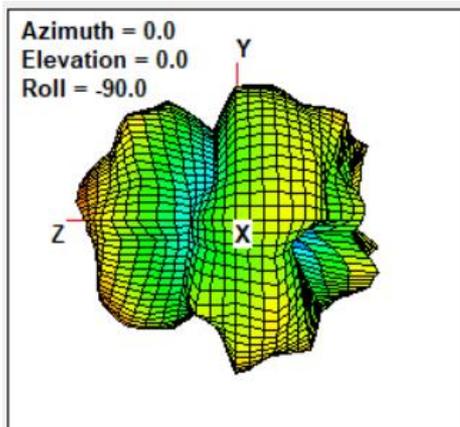
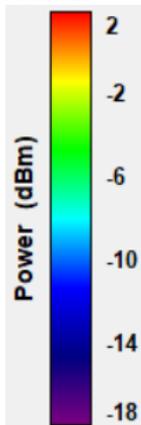
Test Coordinate

# Measured Antenna Efficiency

## Printed antenna-Free Space

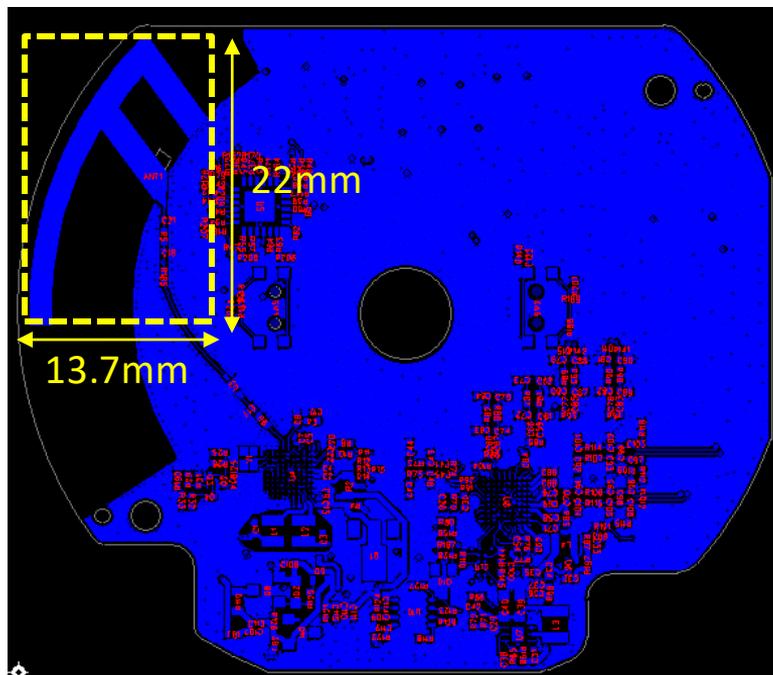
Frequency (MHz)	2400	2402	2410	2420	2430	2440	2441	2450	2460	2470	2480
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-3.11	-3.10	-3.04	-2.91	-2.81	-2.76	-2.75	-2.72	-2.69	-2.64	-2.62
Peak EIRP (dBm)	0.50	0.58	0.63	0.73	0.85	0.88	0.91	0.96	0.96	1.26	1.58
Directivity (dBi)	3.61	3.67	3.67	3.64	3.66	3.64	3.66	3.68	3.65	3.90	4.20
Efficiency (dB)	-3.11	-3.10	-3.04	-2.91	-2.81	-2.76	-2.75	-2.72	-2.69	-2.64	-2.62
Efficiency (%)	48.91	49.00	49.66	51.13	52.42	52.92	53.11	53.47	53.85	54.43	54.74
Gain (dBi)	0.50	0.58	0.63	0.73	0.85	0.88	0.91	0.96	0.96	1.26	1.58

@2441 MHz



# Antenna Dimensions

- Antenna type : PIFA
- Antenna dimensions : 13.7 mm\*22 mm



# ***Thank You***

Delivering Fidelity Sound to Enrich Human's Life

