

APPROVAL SPECIFICATION

Product : Internal Antenna

Model Name : MY26

(LTE/Sub-6 MIMO, WIFI, WIFI MIMO Antenna)

Date : 2024. 09. 30.



LS Mtron Co. Ltd.

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1. Manufacturer

- LS Mtron Co. Ltd.
- LS Mtron Part Number: LS01-I-22002-A1

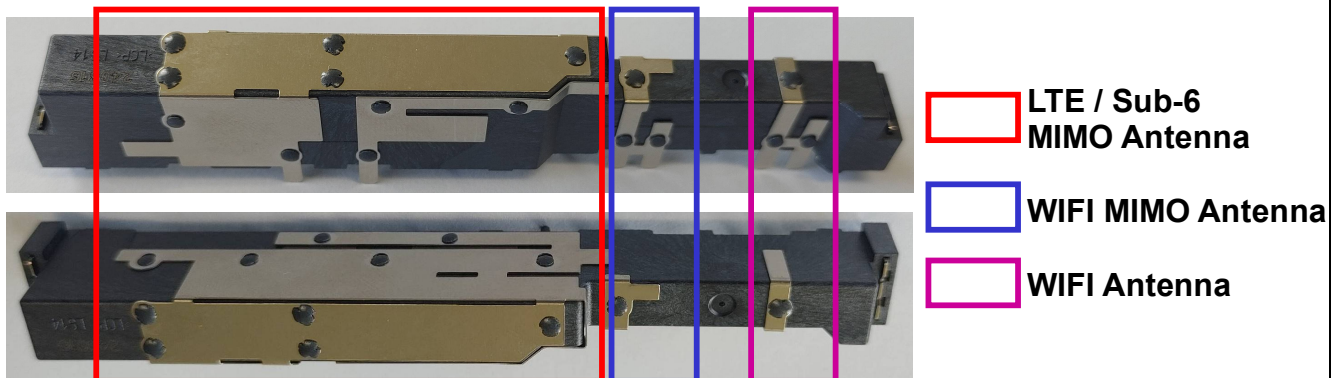
2. Model Name

- **Basic Model: MY25.5**
- **Variation Model: MY26**

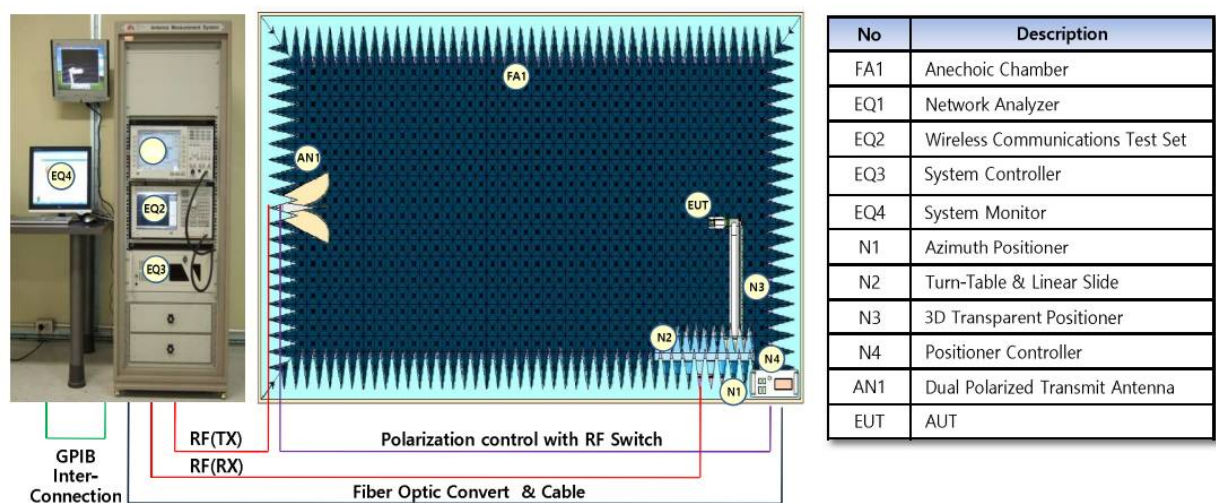
3. Antenna Type

- PIFA : Planar Inverted F Antenna

4. Photos of the Antenna



5. Antenna Gain Test Equipment



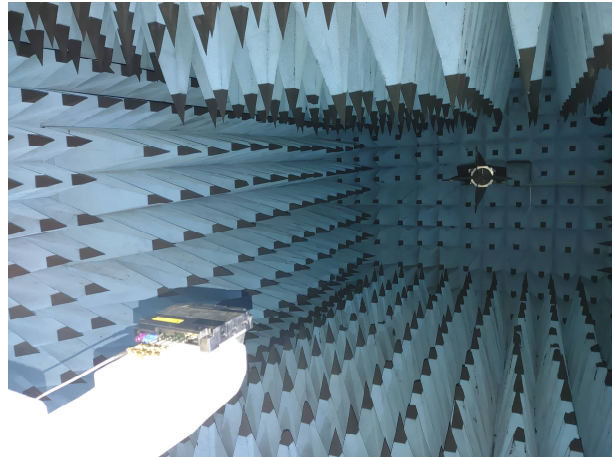
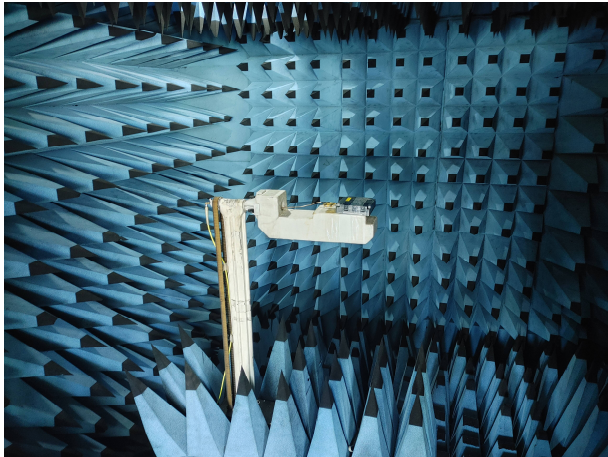
System Diagram with Anechoic Chamber, Positioning System & Test Equipment

6. Antenna Gain Test Location

- LS Mtron Co. Ltd.

Kiturami Building 6F, 396 Gonghang-daero Gangseo-gu, Seoul, 07649, Korea

7. Antenna Gain Test Set up Photos



8. Electric Performance Data

4.1 Specification Sheet

4.1.1 LTE/Sub-6 MIMO Antenna (LB+MB+HB+Sub-6)

Frequency [MHz]	699	716	729	734	746	748	758	791	803	814
Peak Gain(dBi)	-1.99	-1.29	-1.10	-1.32	-1.11	-1.00	-0.41	0.59	0.92	0.50
Average Gain(dBi)	-5.67	-5.24	-4.82	-5.25	-4.51	-4.12	-3.62	-3.12	-3.12	-2.82
Frequency [MHz]	824	832	849	859	869	880	894	915	925	960
Peak Gain(dBi)	0.40	-0.17	0.24	0.60	0.29	0.02	-0.59	-0.77	-0.77	-0.85
Average Gain(dBi)	-3.08	-3.18	-3.23	-3.32	-3.75	-3.79	-4.66	-5.01	-5.15	-5.90
Frequency [MHz]	1710	1755	1785	1805	1850	1880	1910	1920	1930	1980
Peak Gain(dBi)	-0.91	-0.14	1.29	1.93	0.73	-0.32	-0.26	0.07	-0.12	0.70
Average Gain(dBi)	-4.63	-4.23	-3.97	-3.09	-3.51	-4.15	-4.79	-4.46	-4.79	-3.70
Frequency [MHz]	1990	2110	2155	2170	2300	2400	2500	2570	2620	2690
Peak Gain(dBi)	0.75	2.17	2.12	1.76	2.21	0.99	2.01	0.53	0.29	-0.11
Average Gain(dBi)	-4.02	-3.07	-3.94	-3.97	-4.60	-5.24	-3.72	-4.71	-4.65	-5.05
Frequency [MHz]	3300	3500	3700	3900	4100	4200				
Peak Gain(dBi)	1.30	2.77	2.22	2.39	0.66	0.43				
Average Gain(dBi)	-3.74	-3.19	-3.12	-3.41	-4.77	-4.37				

4.1.2 WIFI Antenna (WIFI) [Ant1](#)

Frequency [MHz]	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457
Peak Gain(dBi)	2.99	2.57	2.82	2.56	2.72	2.65	2.65	2.36	2.19	2.07
Average Gain(dBi)	-1.63	-1.84	-1.46	-1.88	-1.89	-1.64	-1.82	-1.62	-1.90	-1.70
Frequency [MHz]	2462	2467	2472							
Peak Gain(dBi)	2.05	2.44	2.66							
Average Gain(dBi)	-1.82	-1.95	-1.70							

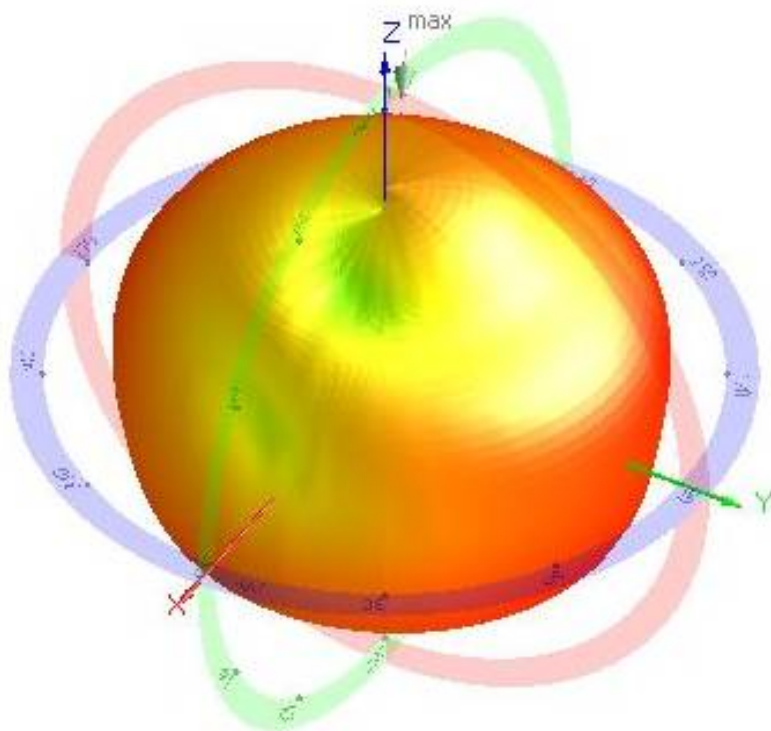
4.1.3 WIFI MIMO Antenna (WIFI) [Ant2](#)

Frequency [MHz]	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457
Peak Gain(dBi)	2.92	2.90	2.92	2.76	2.63	2.23	2.99	2.66	2.62	2.30
Average Gain(dBi)	-1.67	-1.72	-1.54	-1.84	-1.67	-1.73	-1.90	-1.63	-1.82	-1.93
Frequency [MHz]	2462	2467	2472							
Peak Gain(dBi)	2.29	2.45	2.92							
Average Gain(dBi)	-1.88	-1.96	-1.46							

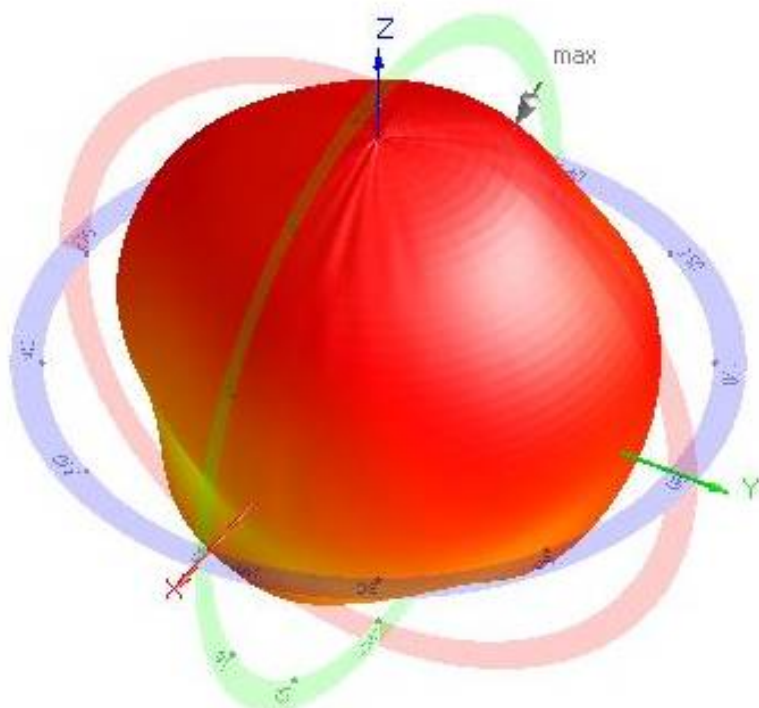
4.2 3D Radiation Pattern

4.2.1 LTE / Sub-6 MIMO Antenna (LB+MB+HB+Sub-6)

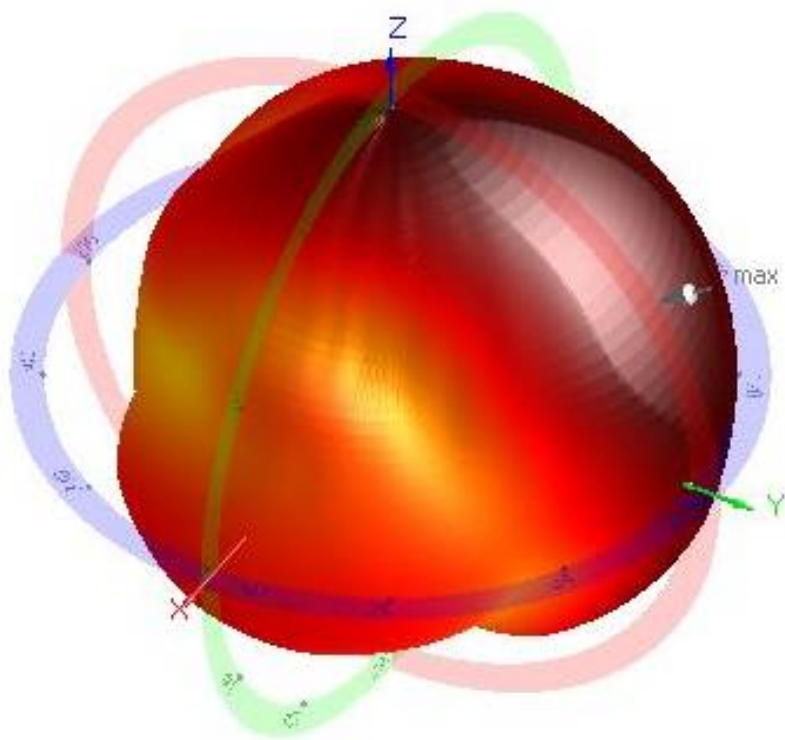
4.2.1.1 LTE LB MIMO (B5/12/17)



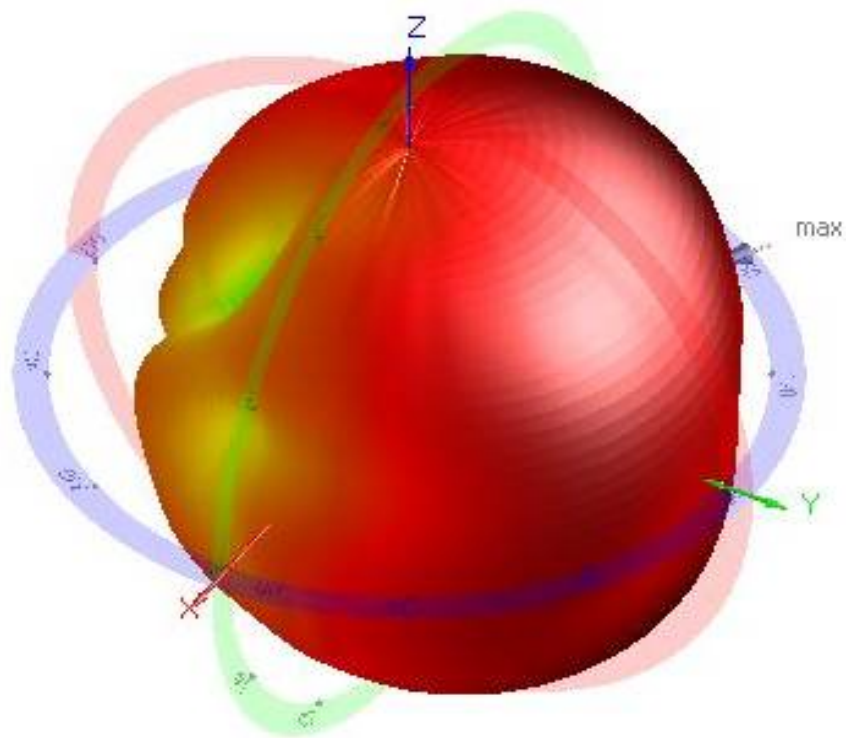
4.2.1.2 LTE MB MIMO (B2/4/66)



4.2.1.3 LTE HB MIMO (B7)

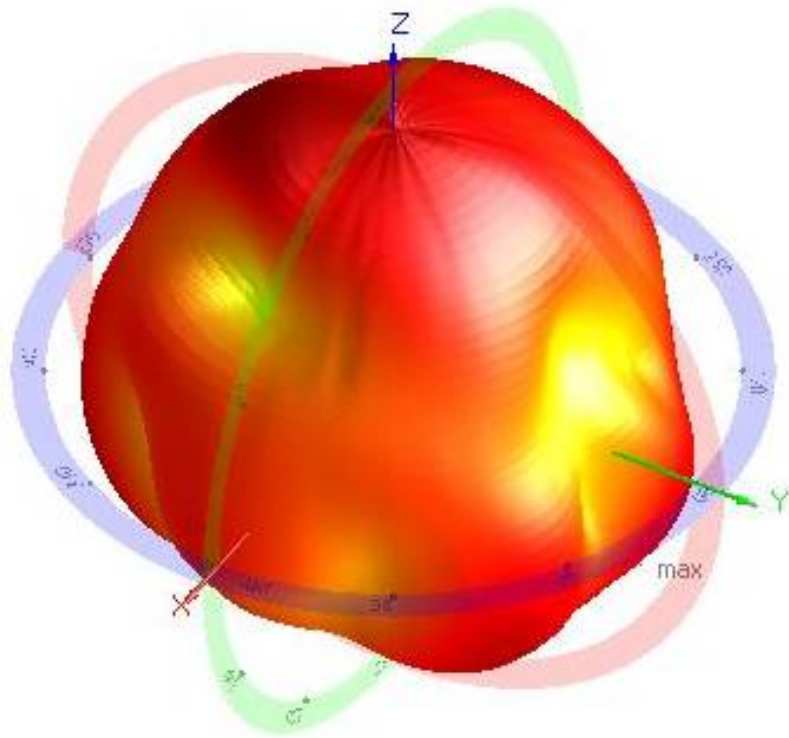


4.2.1.4 Sub-6 MIMO (n77)



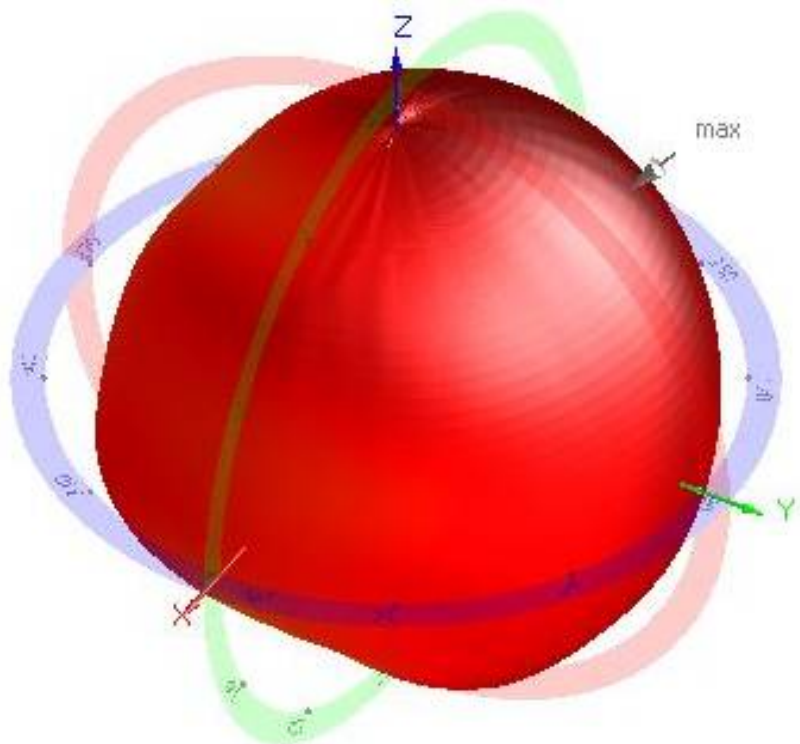
4.2.2 WIFI Antenna (BT/WiFi 2.4GHz)

4.2.2.1 BT/WIFI 2.4G



4.2.3 WIFI MIMO Antenna (BT/WiFi 2.4GHz)

4.2.3.1 BT/WIFI MIMO 2.4G



9. External Drawing

