

	GradiANT (Pattern Antenna)	
	MODEL NAME	MR26

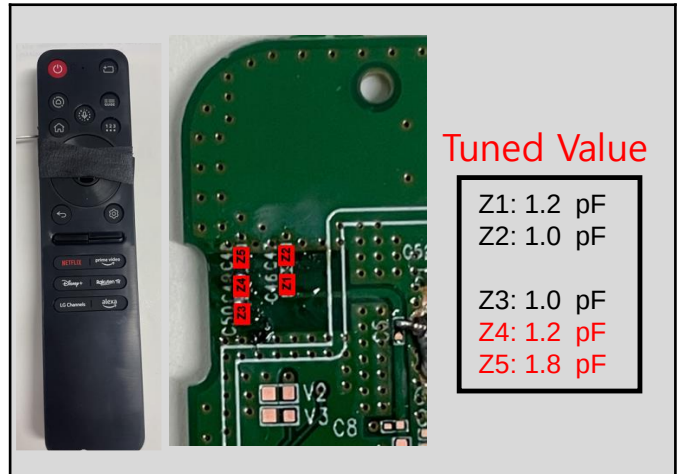
MR26

ANT Review Report

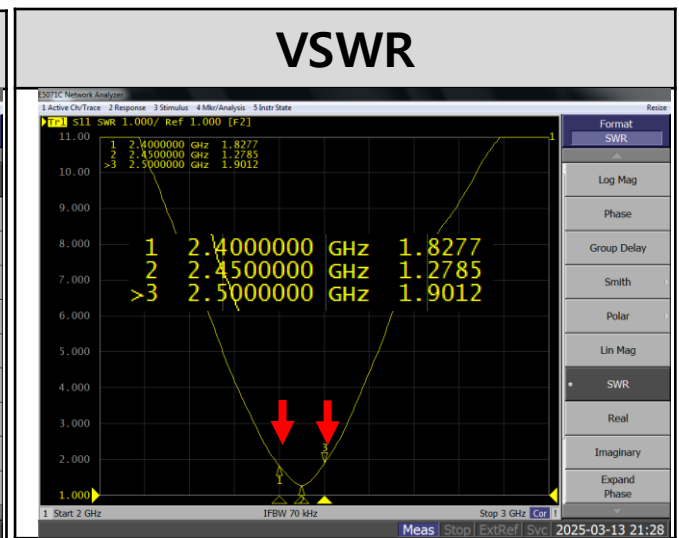
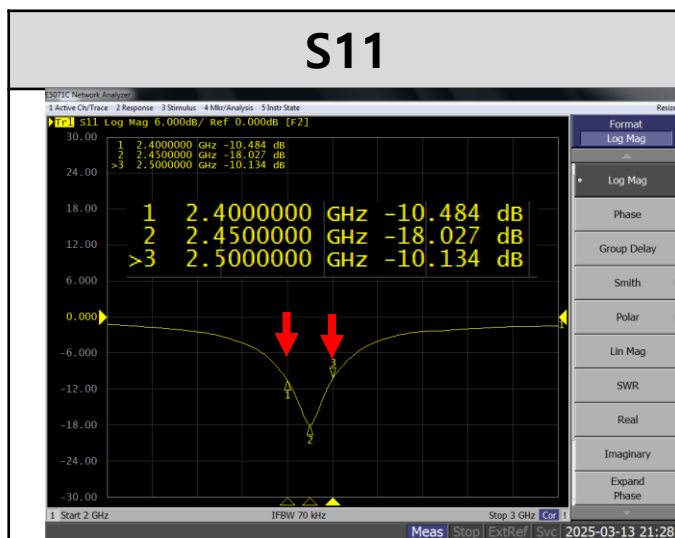
Rev01 기구조립
2025.03.14

1.2 Test Result for MR26 기구조립 #1 (Tuned)

	Peak [dBi]	Average [dBi]	Efficiency [%]
2400MHz	2.30	-2.61	54.8
2425MHz	2.23	-2.80	52.5
2445MHz	2.32	-2.59	55.1
2465MHz	2.06	-2.96	50.6
2485MHz	1.31	-3.79	41.8
2435MHz	Max peak gain(dBi)		2.51



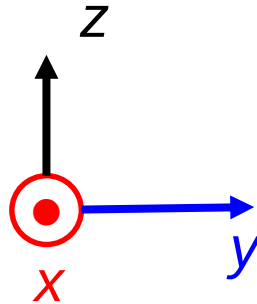
► Passive Data



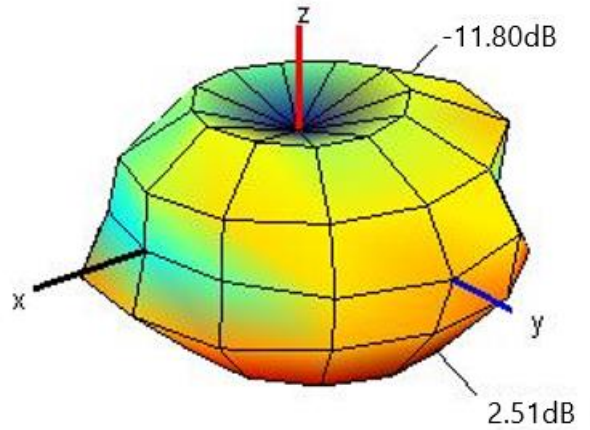
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Frequency [MHz]	2400	2405	2410	2415	2420	2425	2430	2435	2440	2445	2450	2455	2460	2465	2470	2475	2480	2485
Efficiency [dB]	-2.61	-2.56	-2.53	-2.68	-2.74	-2.80	-2.49	-2.50	-2.54	-2.59	-2.84	-2.88	-2.91	-2.96	-3.00	-3.10	-3.29	-3.79
Efficiency [%]	54.8	55.4	55.9	53.9	53.2	52.5	56.4	56.3	55.7	55.1	52.0	51.6	51.2	50.6	50.1	49.0	46.8	41.8
TRG ₉ [dB]	-3.24	-3.20	-3.12	-3.30	-3.38	-3.48	-3.15	-3.16	-3.26	-3.32	-3.58	-3.64	-3.71	-3.80	-3.89	-4.00	-4.18	-4.73
TRG ₆ [dB]	-11.32	-11.23	-11.43	-11.43	-11.39	-11.19	-11.02	-10.97	-10.70	-10.68	-10.89	-10.79	-10.65	-10.50	-10.34	-10.39	-10.66	-10.87
UHRG [dB]	-7.75	-7.78	-7.65	-7.84	-7.91	-8.03	-7.69	-7.77	-7.68	-7.75	-8.04	-8.18	-8.24	-8.20	-8.18	-8.43	-8.55	-9.11
UHRG/TRG [%]	30.7	30.1	30.7	30.5	30.4	30.0	30.2	29.7	30.6	30.4	30.2	29.5	29.3	29.9	30.3	29.3	29.8	29.3
H-Plane	-7.31	-7.01	-6.65	-6.68	-6.82	-6.86	-6.45	-6.33	-6.32	-6.27	-6.56	-6.84	-6.63	-6.75	-6.74	-6.97	-7.18	-7.37
E1-Plane, AVG [dB]	-4.17	-4.05	-4.04	-4.22	-4.41	-4.40	-4.13	-4.21	-4.27	-4.33	-4.59	-4.73	-4.87	-4.99	-5.13	-5.22	-5.50	-5.88
E2-Plane, AVG [dB]	-2.74	-2.70	-2.69	-2.73	-2.71	-3.01	-2.59	-2.59	-2.66	-2.75	-2.98	-2.95	-2.92	-2.84	-3.02	-3.12	-3.23	-3.63
Peak Gain [dB]	2.30	2.23	2.22	2.18	2.15	2.23	2.40	2.51	2.48	2.32	2.12	2.23	2.19	2.06	2.18	2.05	1.87	1.31
Directivity [dB]	4.91	4.79	4.75	4.86	4.89	5.03	4.89	5.00	5.02	4.91	4.97	5.11	5.10	5.02	5.18	5.15	5.17	5.09
Minimum Gain [dB]	-12.80	-11.15	-12.38	-12.42	-12.89	-11.68	-12.07	-11.80	-10.90	-12.08	-14.14	-11.83	-13.13	-13.09	-13.96	-13.85	-14.54	-14.43
Average Efficiency	-2.89 dB		51.41 %						Peak Gain : 2.51dBi									

1.3 Radiation Pattern for MR26 기구조립 #1 (Tuned)

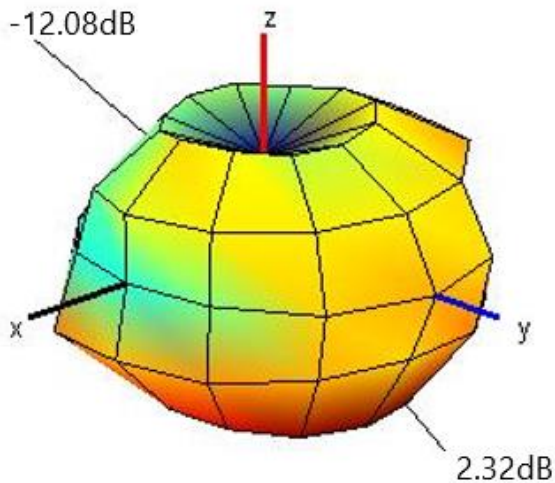
Coordinate



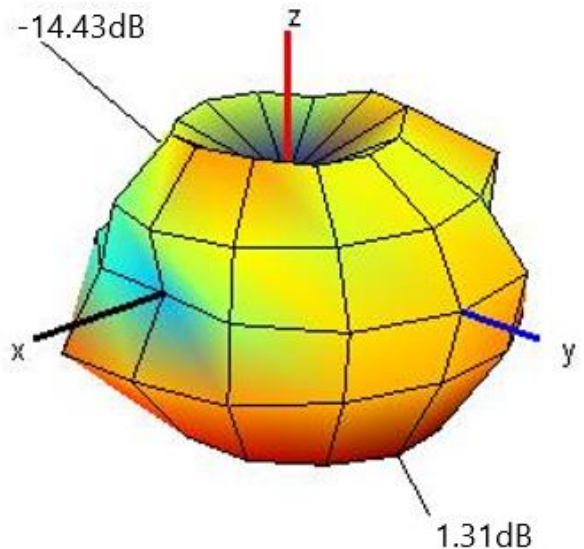
2435 MHz (Peak Gain 주파수)



2445 MHz



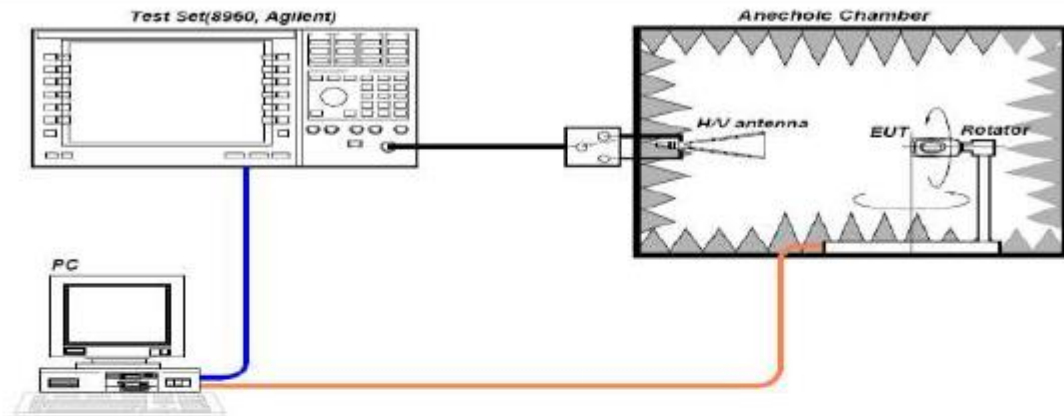
2485 MHz



3. 안테나 Gain 측정 Set-Up

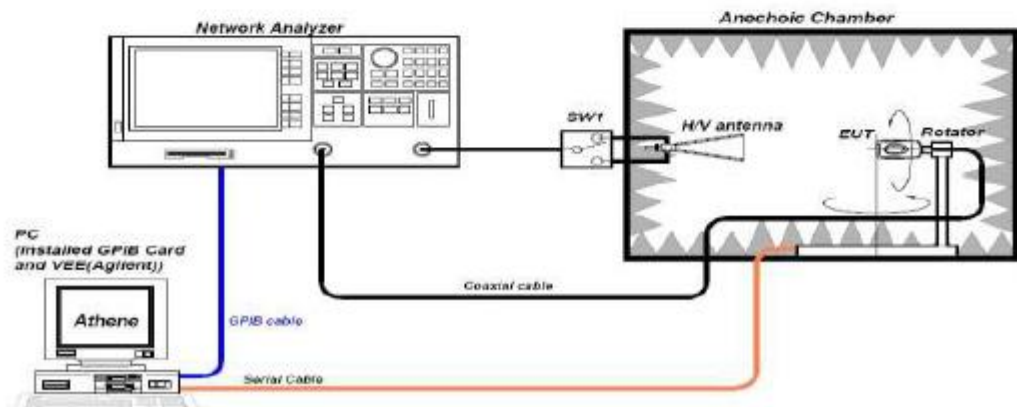
Active test Sysetm

- TRP, NHPRP,UHRP
- TIS, NHPIS, UHIS
- Relative Sensitivity



Passiver test Sysetm

- Efficiency
- Peak Gain, Avg, Gain
- Min, Max PWR



	Rev01 PCB antenna performance review(GradiANT)					
	MODEL NAME	MR26	REV.	01	Page	8

4. 안테나 Gain 측정 장비

4.1 SWR / Return Loss

	Set Condition
Network Analyzer	Agilent 8753ES (Calibration Date : 2024.05.21)
Cable	Semi-rigid (40mm, 60mm)
Test condition	

4.2 Gain

: Antenna gain is measured in the anechoic chamber of this company.

Anechoic Chamber for Antenna Gain Measurement (Calibration Date : 2024.07.10)	
	
	

5. 안테나 Gain 측정 Date : 2025년 03월 13일

6. 테스트 진행 담당자 : 이동열 (Lee Dong Youl) 연구실장 (라디나 주식회사)

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