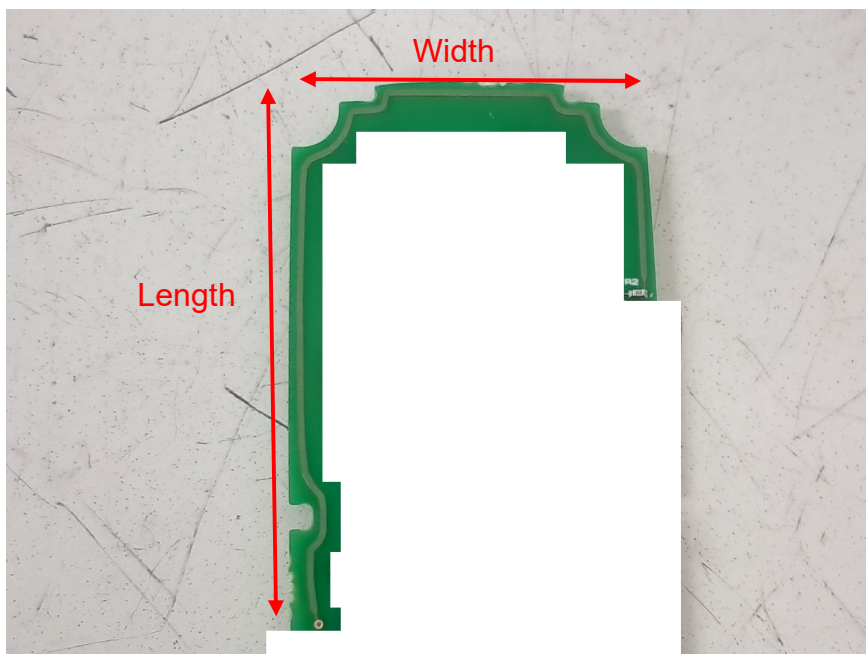


Antenna Information

Item	Contents
Antenna Type	PCB Pattern Antenna
Operation Frequency	433.92 MHz
Antenna peak gain	-12.32 dB i
Manufacturer / Model name	Hyundai Mobis Co., Ltd. / -
Adress of manufacturer	203, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea, 06141
Test Laboratory	ACE Technologies Corp.
Antenna Length	2.8 cm
Antenna Width	4.2 cm



■ Passive Gain



■ 2D, 3D Passive Gain

UHF 대역_3D		
Freq. [MHz]	Efficiency [dB]	Efficiency [%]
432.92	-17.21	1.90
433.92	-17.04	1.98
434.92	-16.91	2.04

UHF 대역_2D						
	freq.	Avg	Peak		Min	
	MHz	dBi	dBi	deg	dBi	deg
H	432.92	-18.83	-15.22	130	-26.75	244
	433.92	-18.65	-15.02	129	-26.68	244
	434.92	-18.49	-14.86	129	-26.70	245
E1	432.92	-16.54	-14.12	301	-21.60	196
	433.92	-16.37	-13.94	301	-21.43	195
	434.92	-16.23	-13.81	301	-21.30	194
E2	432.92	-16.81	-12.46	57	-26.85	254
	433.92	-16.66	-12.32	55	-26.65	252
	434.92	-16.53	-12.22	55	-26.55	253

설 명

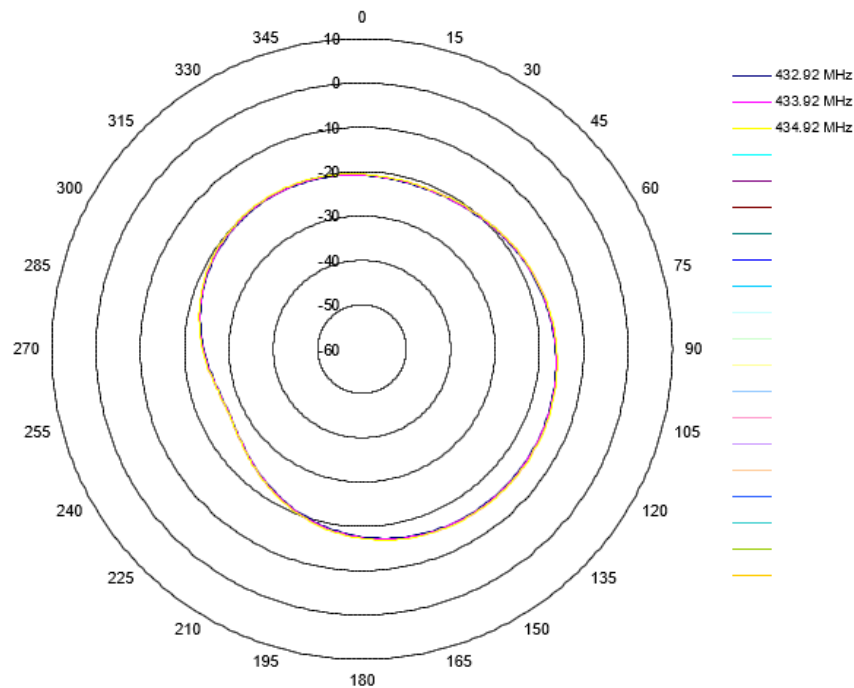
• 2D, 3D Passive 측정 DATA

UHF 대역_2D 측정



검토 결과 : UHF 대역_2D_H

2D 측정_ H Plane



	<i>f</i>	<i>Avg</i>	<i>Peak</i>	<i>Min</i>	<i>HPBW</i>
	MHz	dBi	dBi deg	dBi deg	deg
1	432.92	-18.83	-15.22 130	-26.75 244	
2	433.92	-18.65	-15.02 129	-26.68 244	
3	434.92	-18.49	-14.86 129	-26.70 245	

Avg -18.66 dBi

설 명

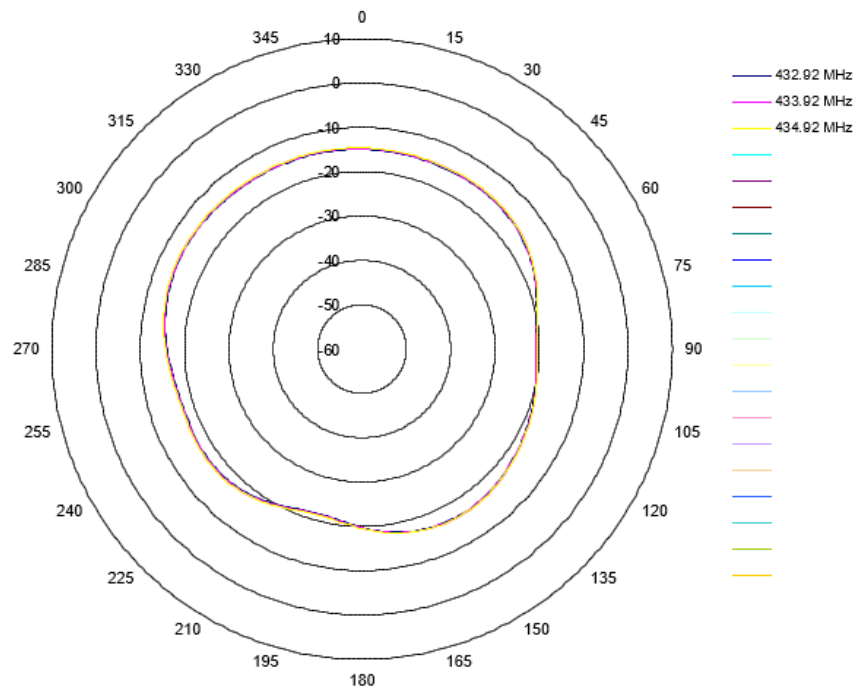
- 2D 안테나 방사패턴(H Plane): Theta 90도 고정, Phi 360도 측정(1도 간격)

UHF 대역_2D 측정



검토 결과 : UHF 대역_2D_E1

2D 측정_ E1 Plane



	<i>f</i>	<i>Avg</i>	<i>Peak</i>	<i>Min</i>	<i>HPBW</i>
	MHz	dBi	dBi deg	dBi deg	deg
1	432.92	-16.54	-14.12 301	-21.60 196	
2	433.92	-16.37	-13.94 301	-21.43 195	
3	434.92	-16.23	-13.81 301	-21.30 194	

Avg -16.38 dBi

설 명

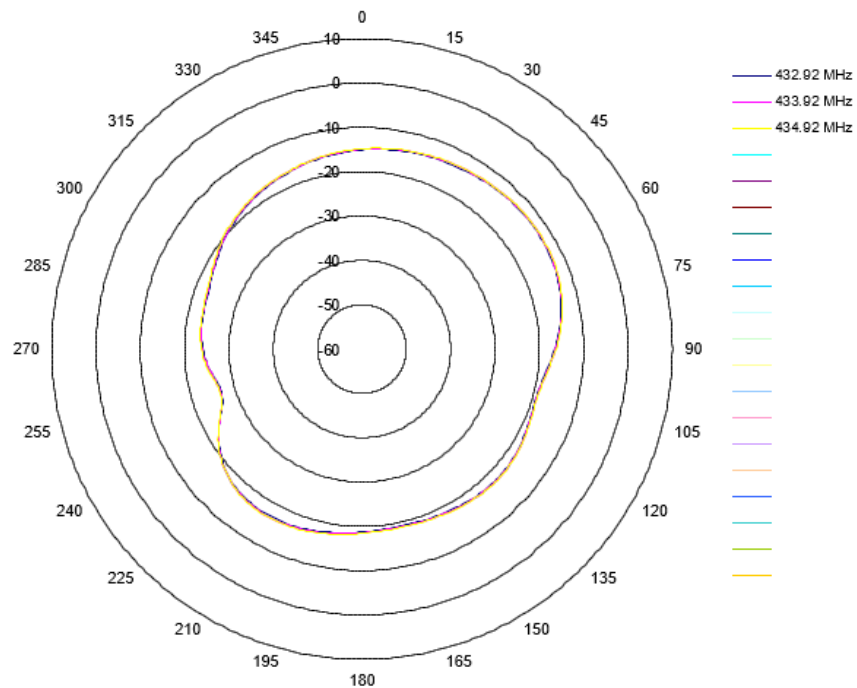
- 2D 안테나 방사패턴(E1 Plane): Phi 0도 고정, Theta 360도 측정(1도 간격)

UHF 대역_2D 측정



검토 결과 : UHF 대역_2D_E2

2D 측정_ E2 Plane



	<i>f</i>	<i>Avg</i>	<i>Peak</i>	<i>Min</i>	<i>HPBW</i>
	MHz	dBi	dBi deg	dBi deg	deg
1	432.92	-16.81	-12.46 57	-26.85 254	
2	433.92	-16.66	-12.32 55	-26.65 252	
3	434.92	-16.53	-12.22 55	-26.55 253	

Avg -16.66 dBi

설 명

- 2D 안테나 방사패턴(E2 Plane): Phi 90도 고정, Theta 360도 측정(1도 간격)