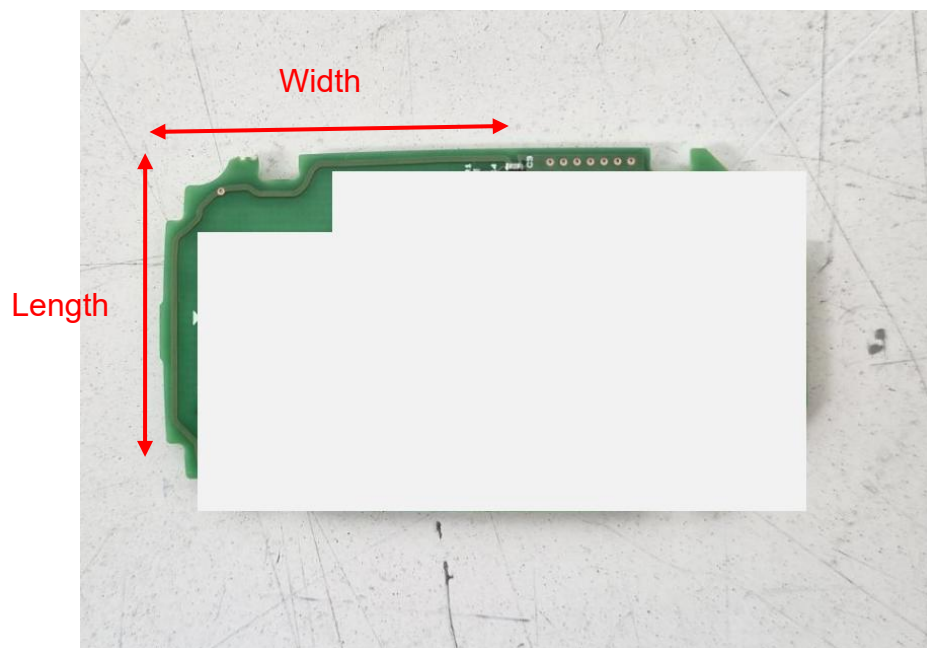


Antenna Information

Item	Contents
Antenna Type	PCB Pattern Antenna
Operation Frequency	433.92 MHz
Antenna peak gain	-8.71 dBi
Manufacturer / Model name	Hyundai Mobis Co., Ltd. / -
Address of manufacturer	203, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea, 06141
Test Laboratory	ACE Technologies Corp.
Antenna Length	2.7 cm
Antenna Width	3.4 cm



■ Passive Gain



■ 2D, 3D Passive Gain

UHF 대역_3D		
Freq. [MHz]	Efficiency [dB]	Efficiency [%]
432.92	-12.78	5.3
433.92	-12.77	5.3
434.92	-12.77	5.3

UHF 대역_2D						
	freq.	Avg	Peak		Min	
	MHz	dBi	dBi	deg	dBi	deg
H	432.92	-14.54	-12.14	333	-17.46	111
	433.92	-14.49	-12.08	332	-17.47	113
	434.92	-14.46	-12.04	338	-17.47	109
E1	432.92	-13.17	-8.69	148	-18.70	192
	433.92	-13.16	-8.71	147	-18.71	192
	434.92	-13.16	-8.76	147	-18.77	192
E2	432.92	-12.93	-8.87	142	-21.44	266
	433.92	-12.89	-8.86	143	-21.41	266
	434.92	-12.88	-8.87	142	-21.44	266

설 명

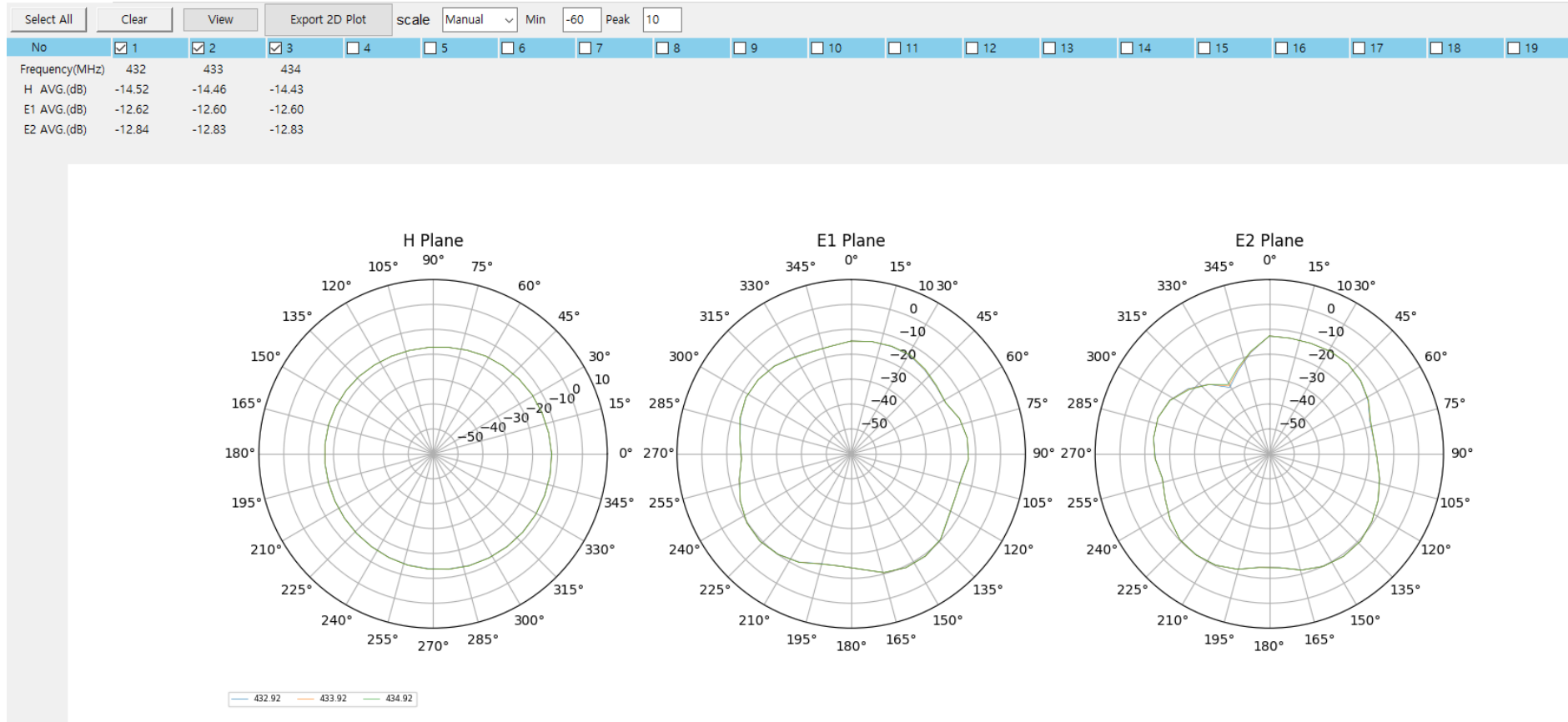
• 2D, 3D Passive 측정 DATA

UHF 대역_3D 측정



검토 결과 : UHF 대역_ALL Freq.

3D 측정_2D plot_ ALL Freq.



설 명

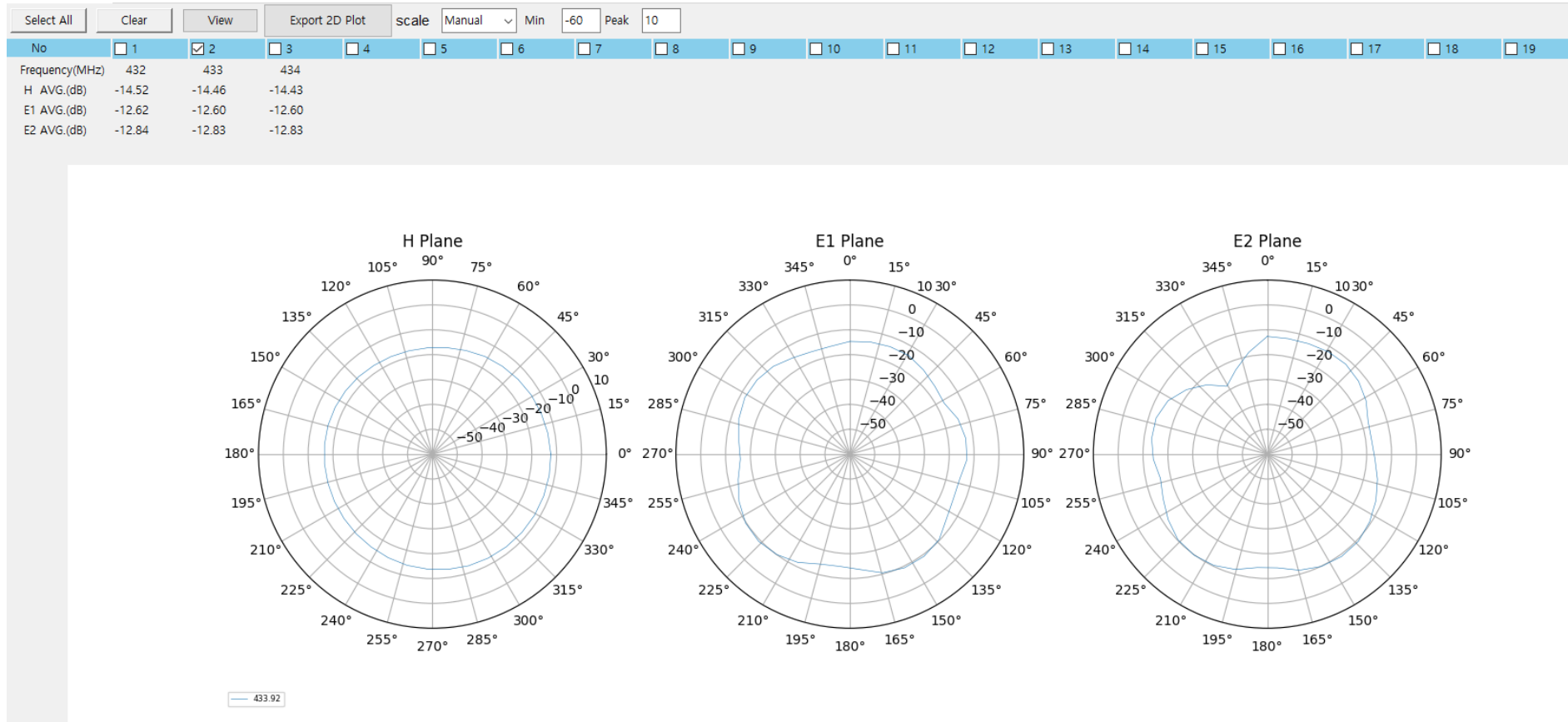
- 3D 안테나 방사패턴: Theta 15도, Phi 15도 간격 측정
- 2D Plane Plot: All Freq.

UHF 대역_3D 측정



검토 결과 : UHF 대역_433.82MHz

3D 측정_2D plot_433.92MHz



설 명

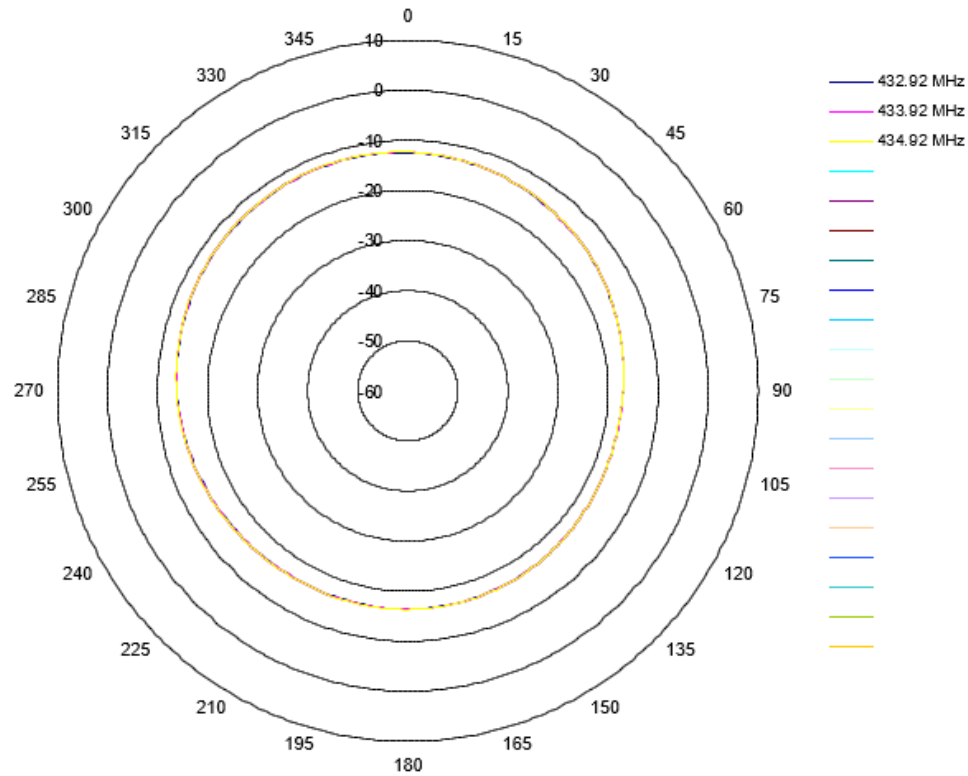
- 3D 안테나 방사패턴: Theta 15도, Phi 15도 간격 측정
- 2D Plane Plot: 433.92MHz

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>
	<i>MHz</i>	<i>dBi</i>	<i>dBi</i>	<i>deg</i>	<i>dBi</i>	<i>deg</i>	<i>deg</i>
1	432.92	-14.54	-12.14	333	-17.46	111	
2	433.92	-14.49	-12.08	332	-17.47	113	
3	434.92	-14.46	-12.04	338	-17.47	109	

Avg -14.50 dBi

설 명

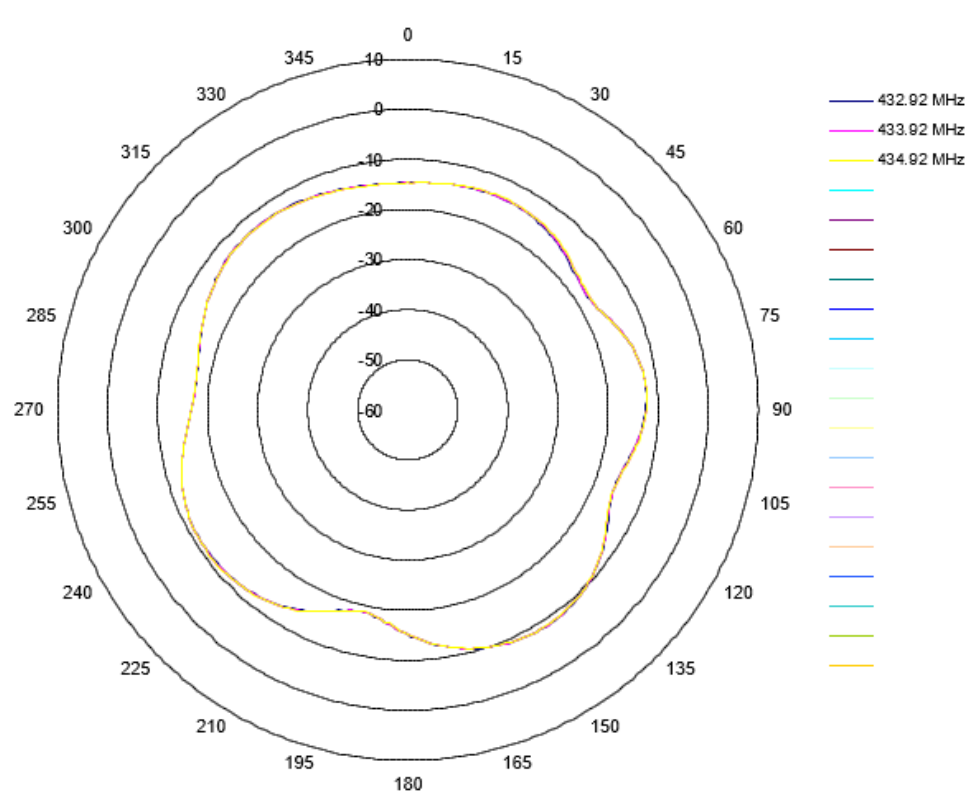
- 2D 안테나 방사패턴(H Plane): Theta 90도 고정, Phi 360도 측정(1도 간격)

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	-13.17	-8.69	148	-18.70	192	
2	433.92	-13.16	-8.71	147	-18.71	192	
3	434.92	-13.16	-8.76	147	-18.77	192	

Avg -13.16 dBi

설 명

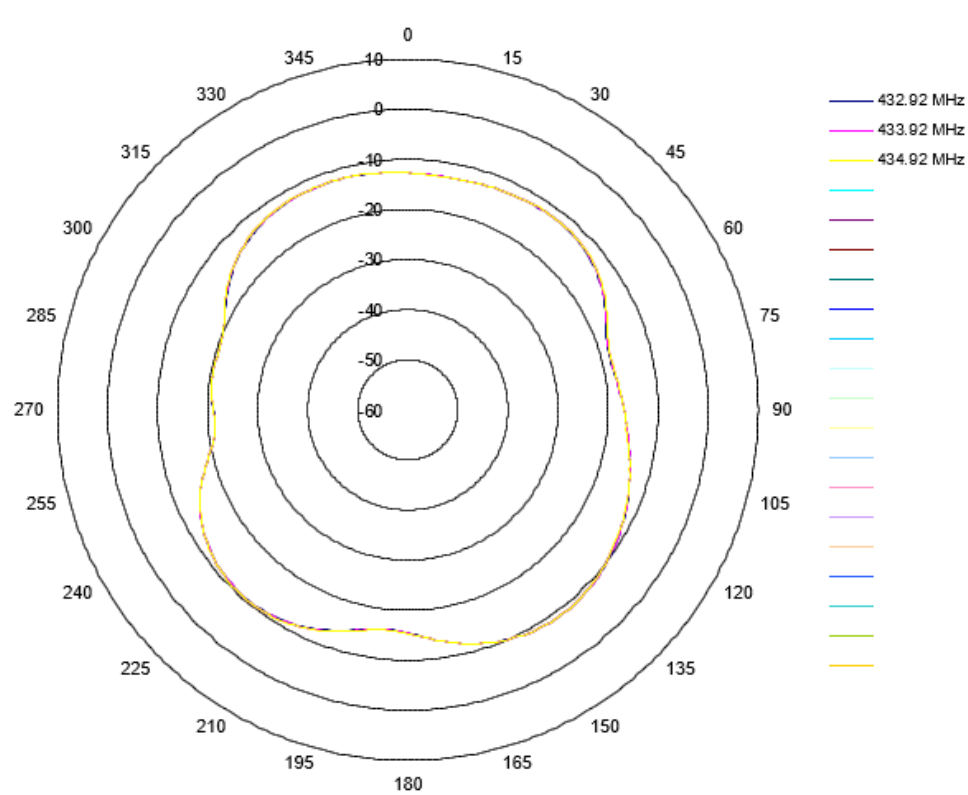
- 2D 안테나 방사패턴(E1 Plane): Phi 0도 고정, Theta 360도 측정(1도 간격)

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>
	<i>MHz</i>	<i>dBi</i>	<i>dBi</i>	<i>deg</i>	<i>deg</i>
1	432.92	-12.93	-8.87	142	266
2	433.92	-12.89	-8.86	143	266
3	434.92	-12.88	-8.87	142	266

Avg -12.90 dBi

설 명

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