

Dongguan GIANTO Electronic Technology Co., LTD

N3-1 Test Report

Guesthouse	Gran plot
product	headset
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Day period	2025-12-10

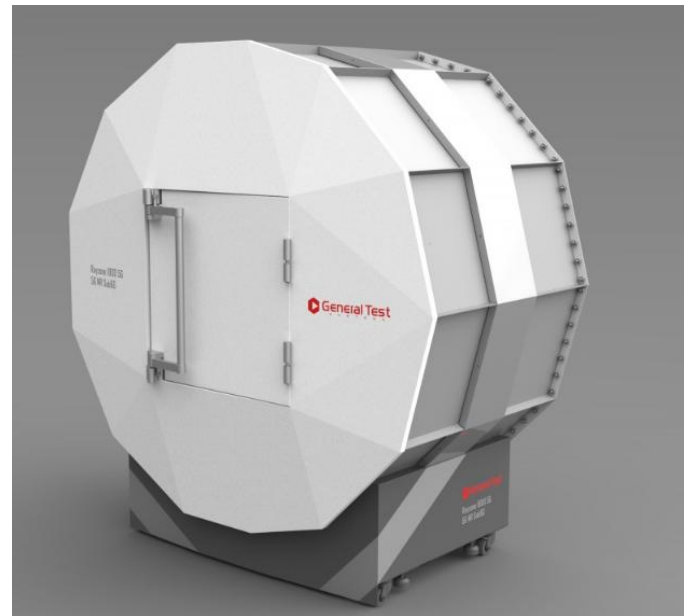
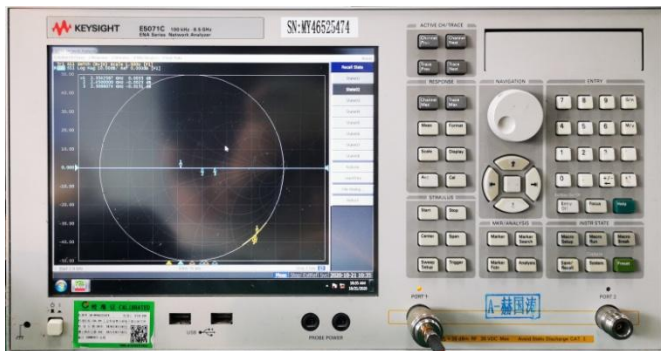
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Test condition

- 1. Measurement of S parameters
- 2. Equipment: Network Analyzer (Agilent E5062A), microwave darkroom, MT8852B
- 3. Items: Impedance, return loss, VSWR, Efficiency, gain, radiation field pattern, Sensitivity, Power, frequency offset active data TRP TIS



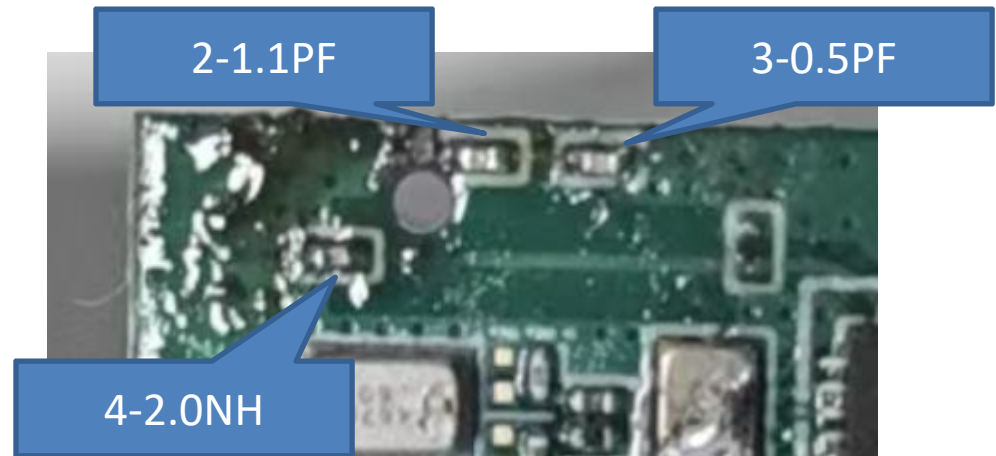
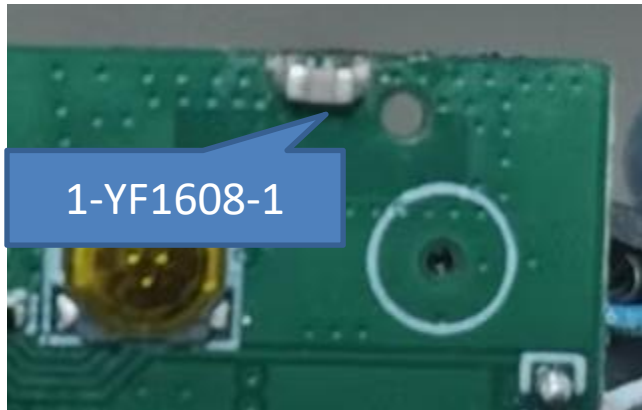
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Prototype appearance



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matching parameter

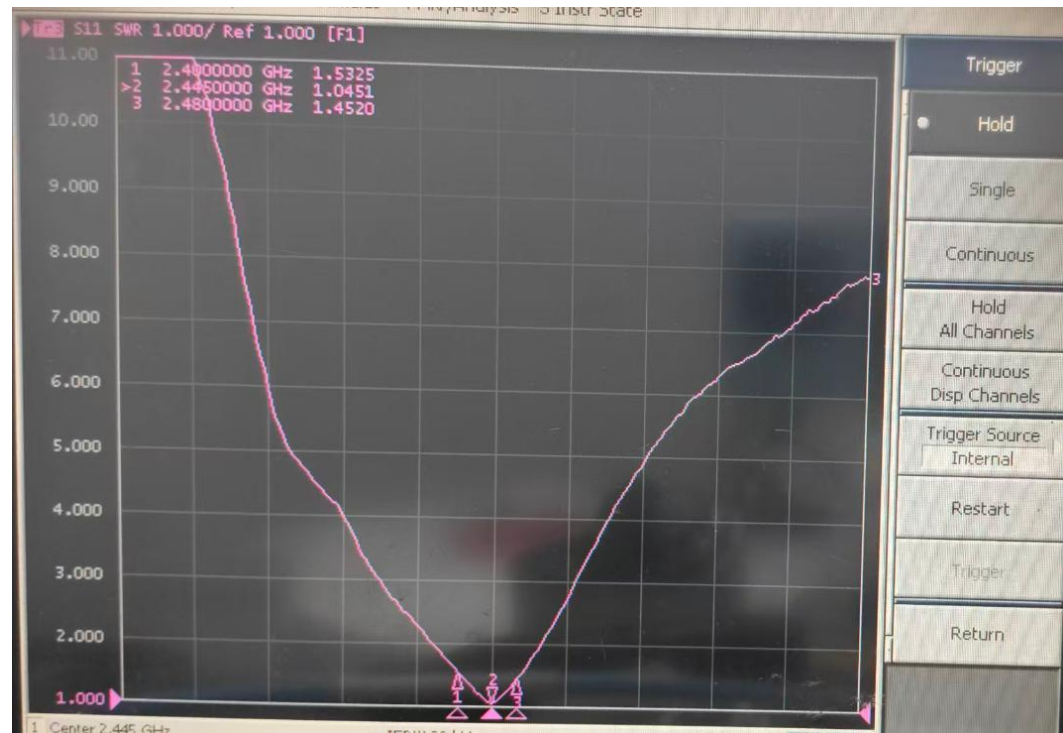


serial number	model	Specification	manufacturer	object ID	tolerance	
1	YF1608-1	1608	YINGFENG	YF1608F2P2G4502		
2	capacitance	1.1PF/0201	Murata		$\pm 0.1\text{PF}$	
3	capacitance	0.5PF/0201	Murata		$\pm 0.1\text{PF}$	
4	inductance	2.0NH/0201	Murata		$\pm 0.1\text{NH}$	

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Network debugging antenna S parameter

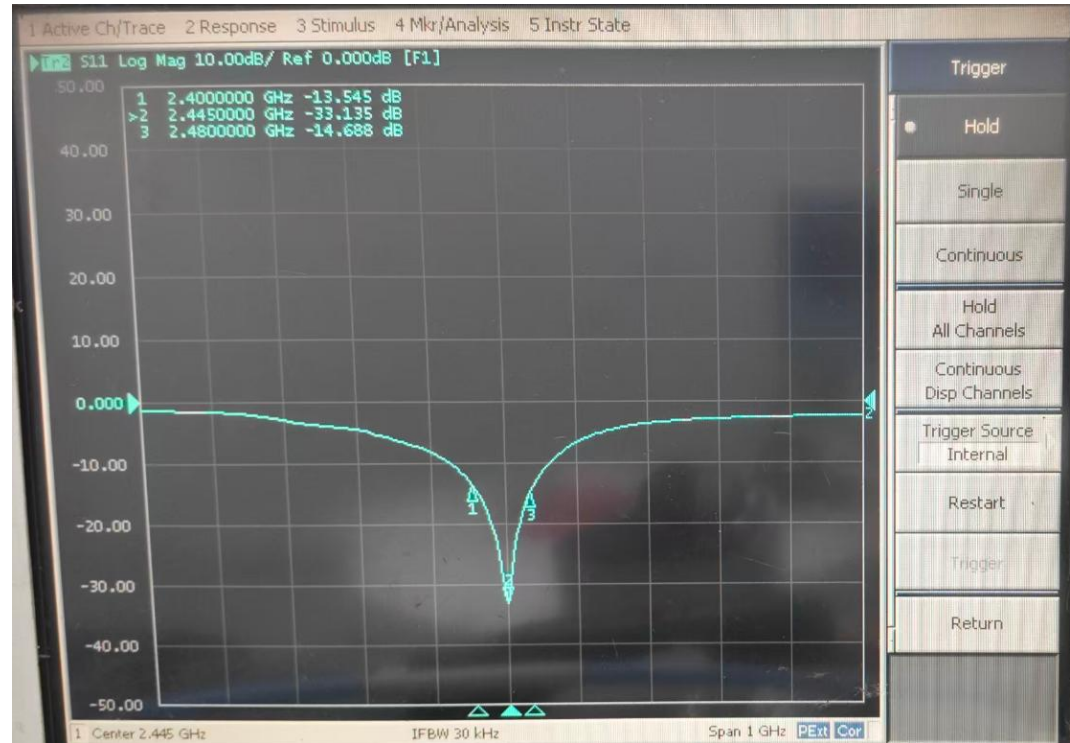
Debug waveform
standing-wave ratio (SWR)



Frequency (MHz)	2400	2450	2480
Log Mag	1.53	1.04	1.45

Network debugging antenna S parameter

Debug waveform RL (return loss)

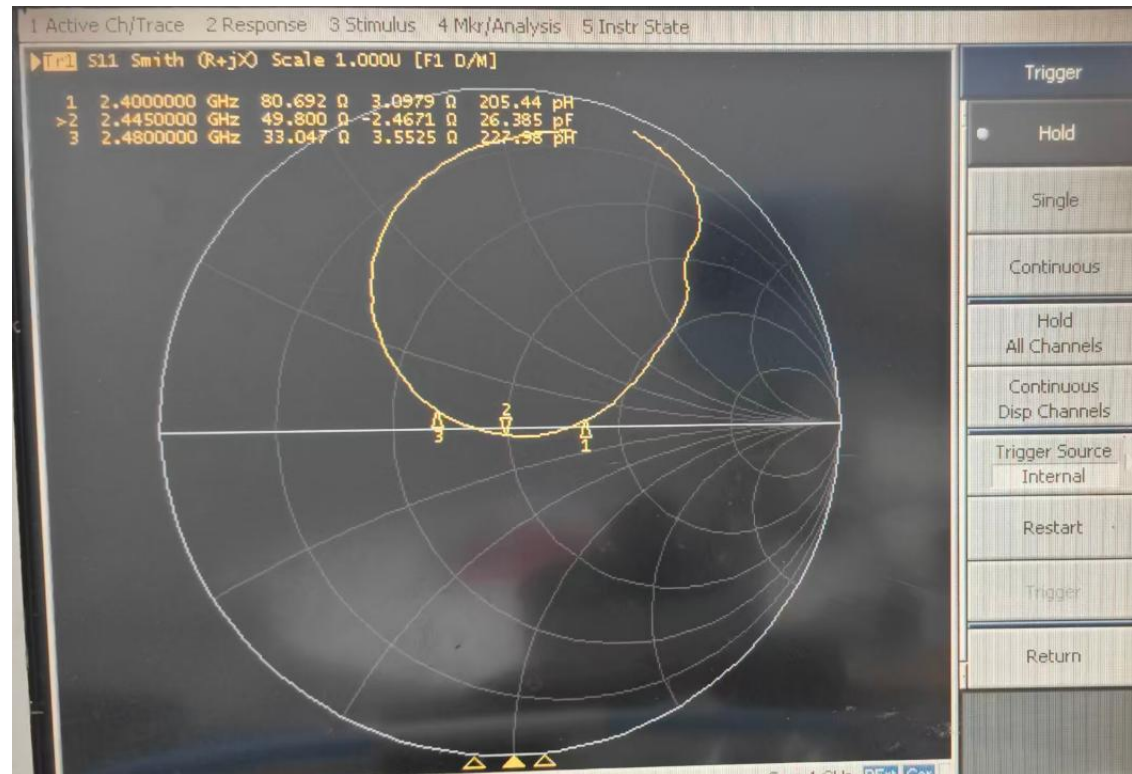


Frequency (MHz)	2400	2450	2480
Log Mag	-13.54	-33.13	-14.68

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Network debugging antenna S parameter

Debug waveform
impedance



Frequency (MHz)	2400	2450	2480
Log Mag	80.69	49.80	33.04

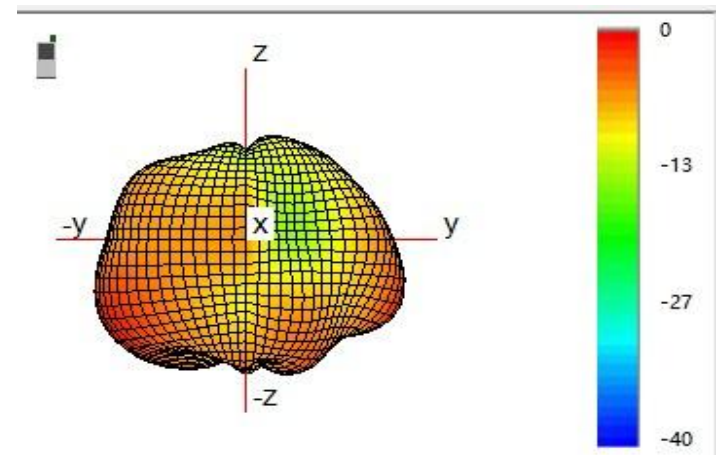
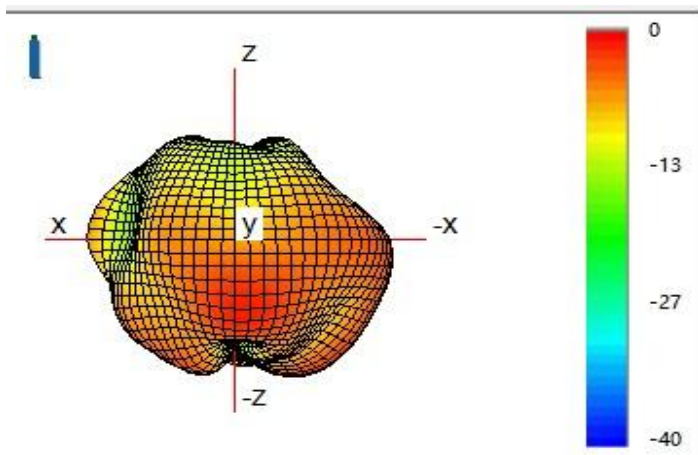
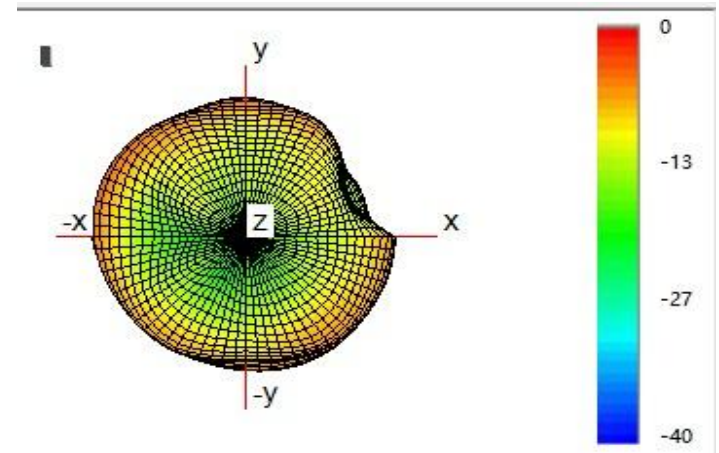
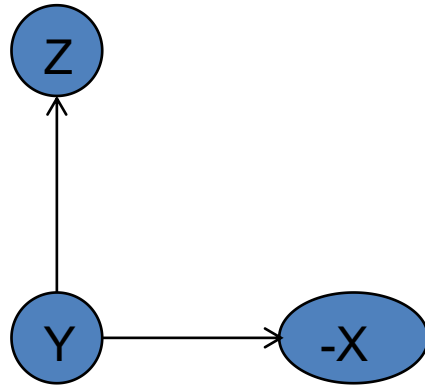
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Free field passive efficiency of the whole machine

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-0.959868099	-6.618578787	21.78422537
2410	-0.395876236	-6.050359795	24.82927397
2420	0.012480166	-5.716115848	26.81565535
2430	0.358659215	-5.470904172	28.37328254
2440	0.691174315	-5.199200595	30.20507654
2450	0.649151417	-5.23329307	29.96889244
2460	0.314227739	-5.497043978	28.20301914
2470	0.152405459	-5.610985978	27.4727037
2480	-0.184940008	-5.812686248	26.22595884
2490	-0.762211769	-6.275688621	23.57388377
2500	-1.472984572	-6.758320092	21.09443953

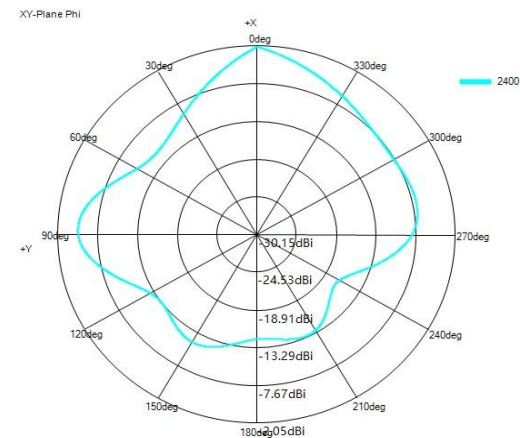
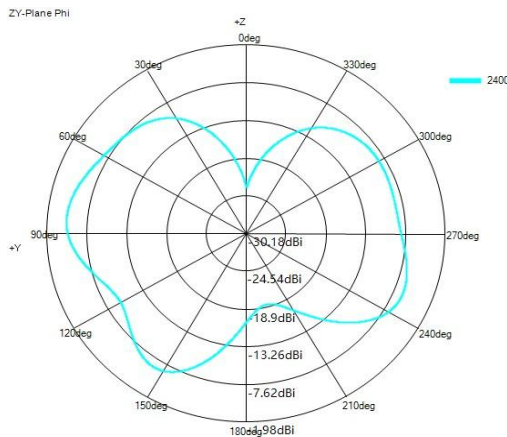
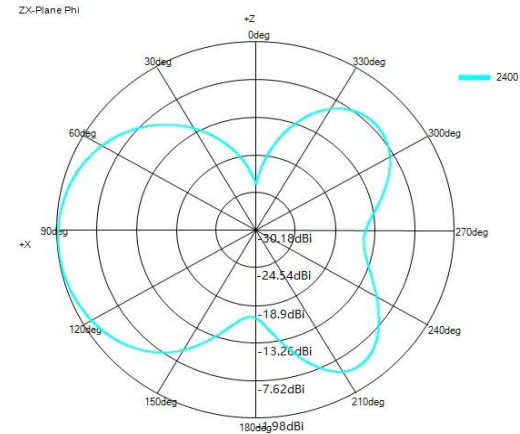
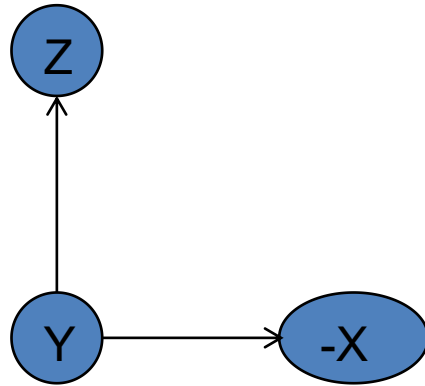
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Complete free field passive field type



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The entire machine's free-field passive 2D image



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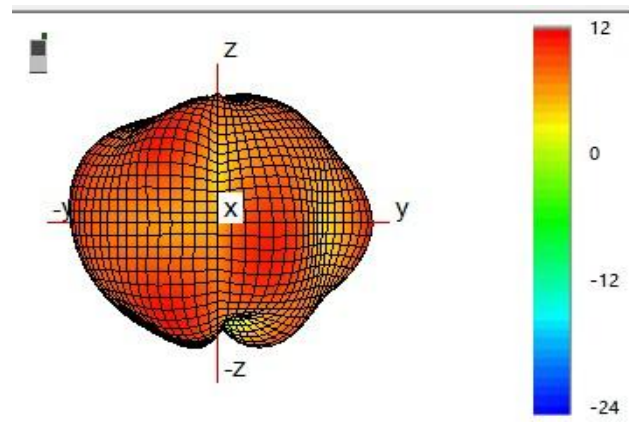
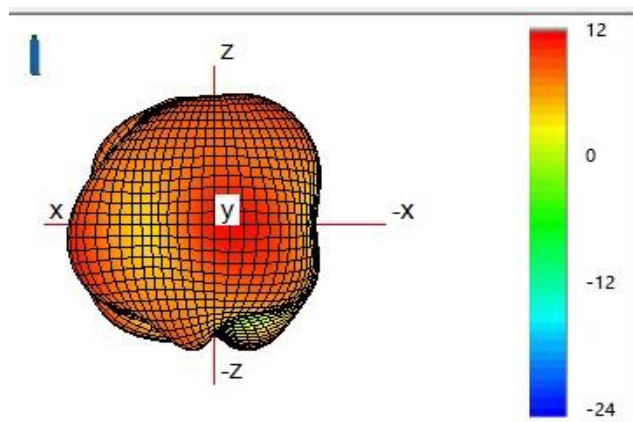
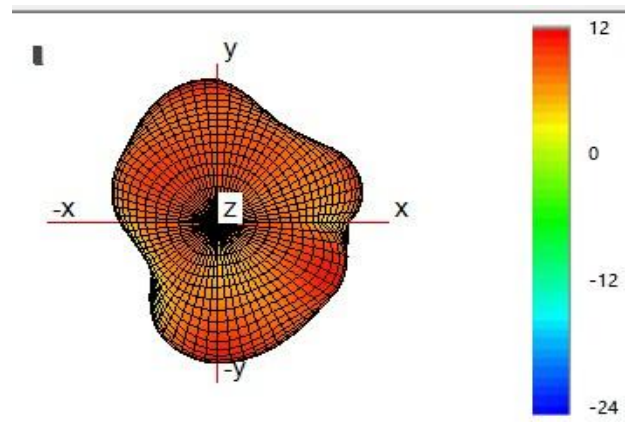
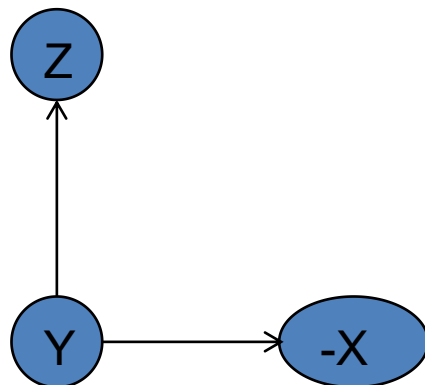
Complete machine free field OTA data

	Channel	TRP (dBm)	TIS (dBm)
	CH0	7.336647713	-90.9347887
	CH39	8.37667468	-91.5811008
	CH78	8.030919803	-90.9061618

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Complete free field OTA field type

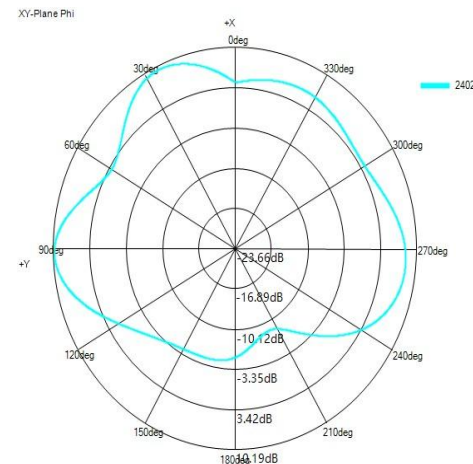
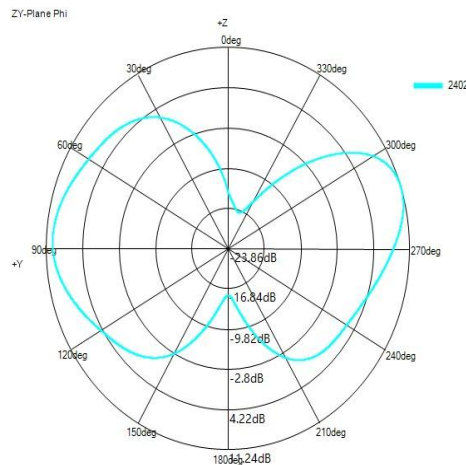
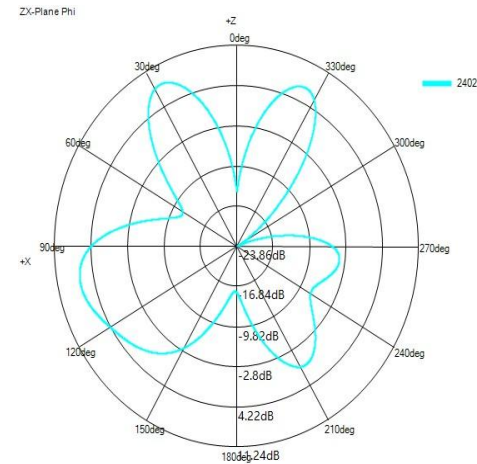
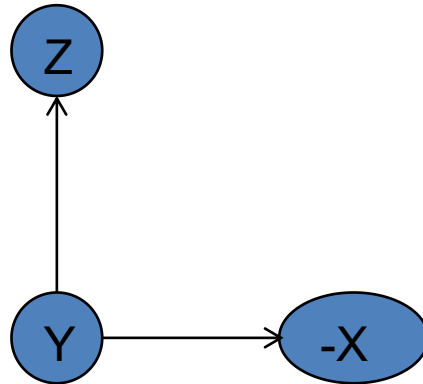
TRP:



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The entire machine's free-field OTA 2D image

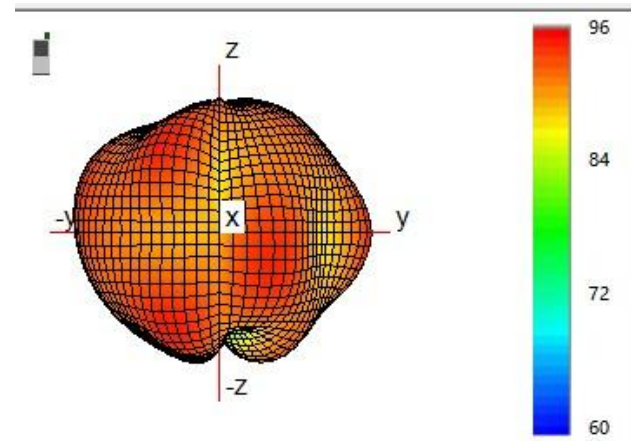
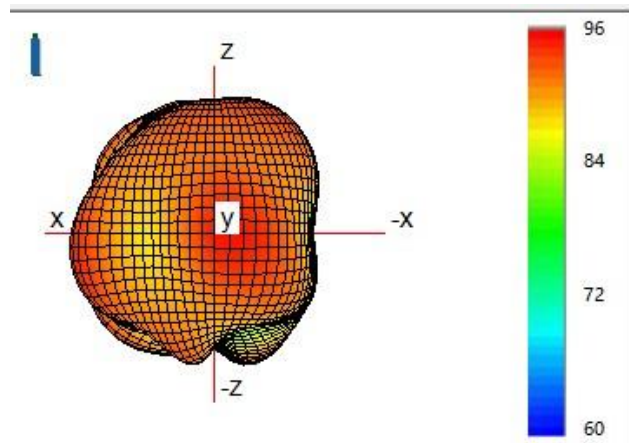
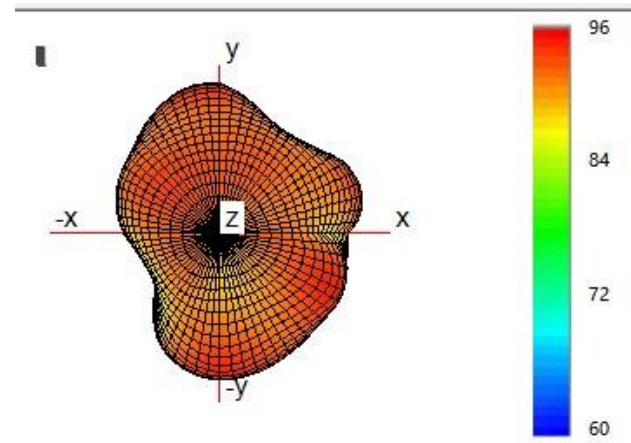
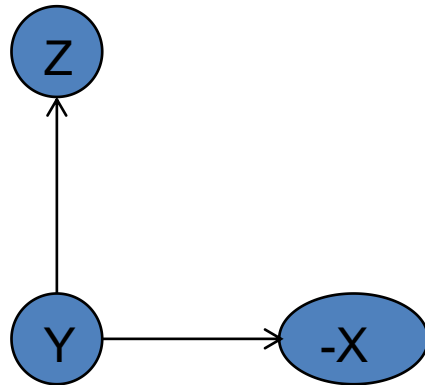
TRP:



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Complete free field OTA field type

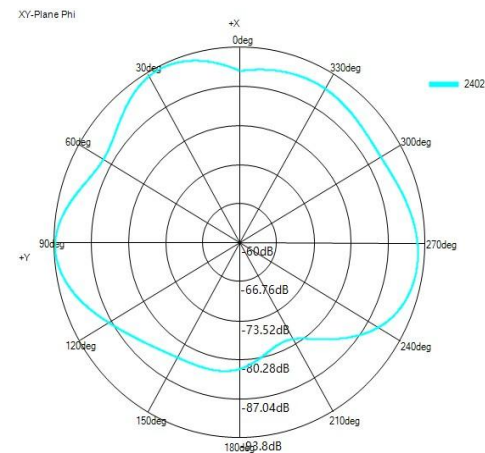
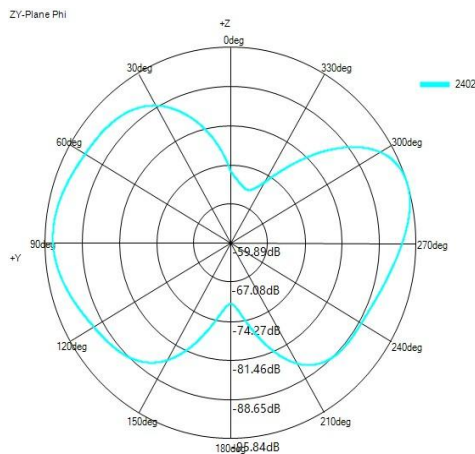
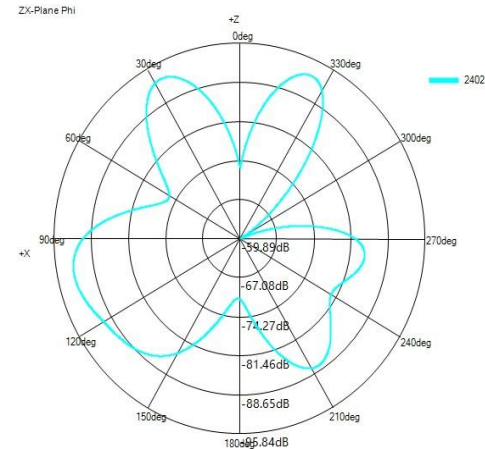
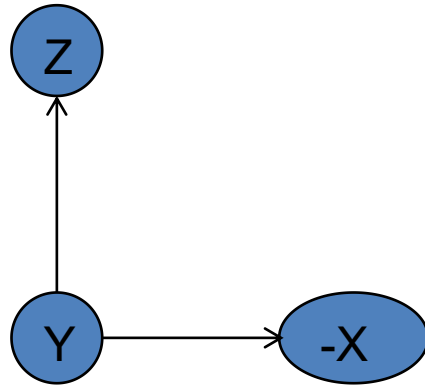
TIS:



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The entire machine's free-field OTA 2D image

TIS:



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Thanks for Your Attention