

Dongguan Guosheng Electronic Technology Co., Ltd

AN2012S24PL antenna ATO test report

client	wanquanjia
Tester	003
Phone	18025177909
date	2025-04-18
Editors	002

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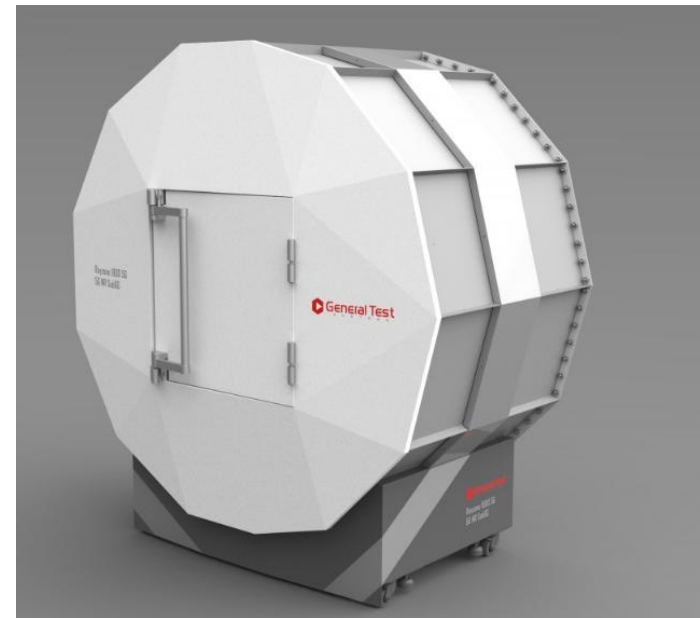
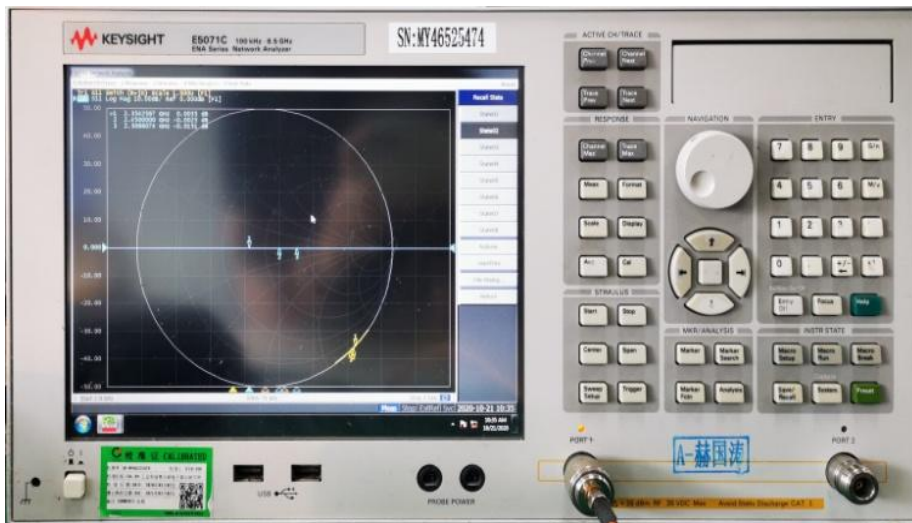
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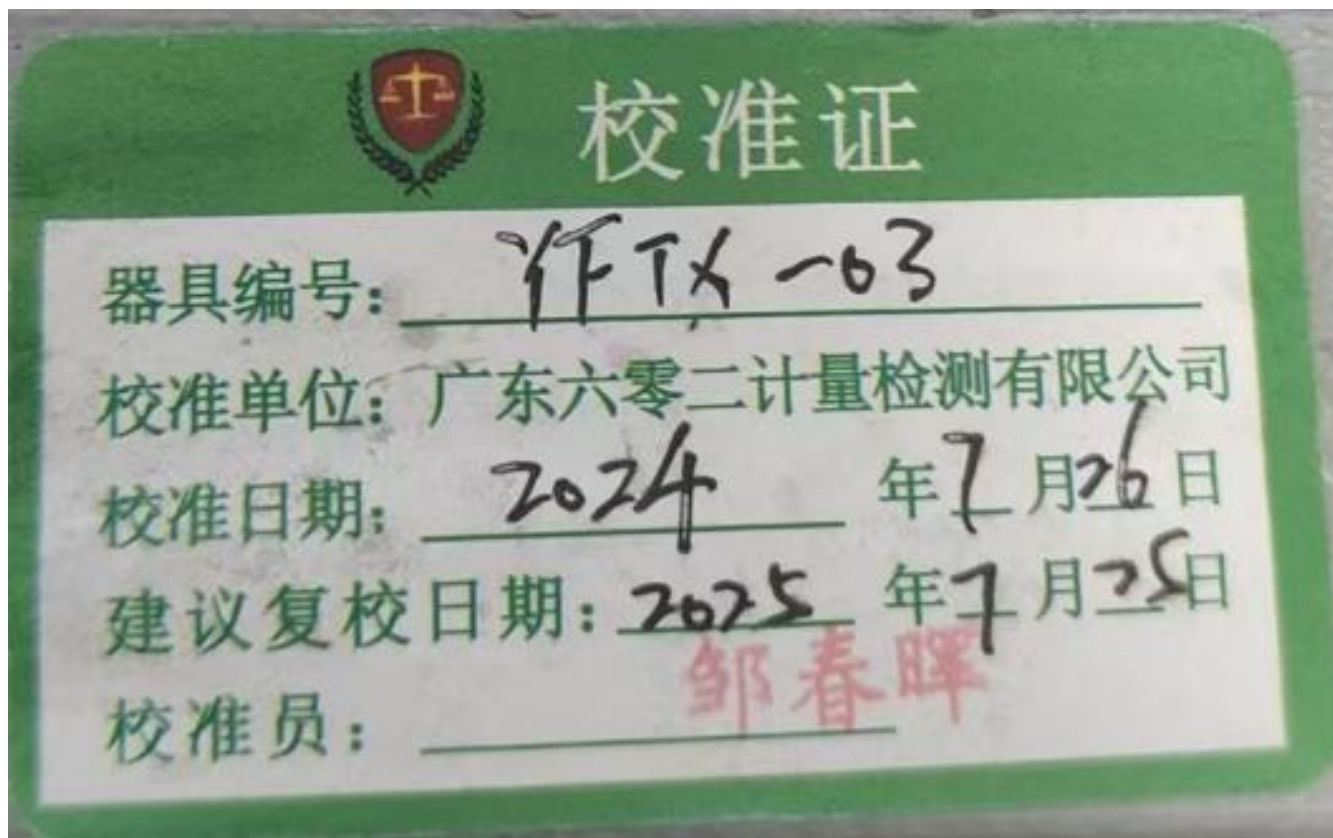
Test conditions

- 1.S-parameter measurement
- 2. Equipment: Network analyzer (Agilent E5062A), microwave anechoic chamber, MT8852B
- 3. Items: Impedance, Return Loss, VSWR, Efficiency, Gain, Radiated Field Type, Sensitivity, Power, Frequency Offset Active Data TRP TIS
- 4. The date of instrument calibration 2024/7/26



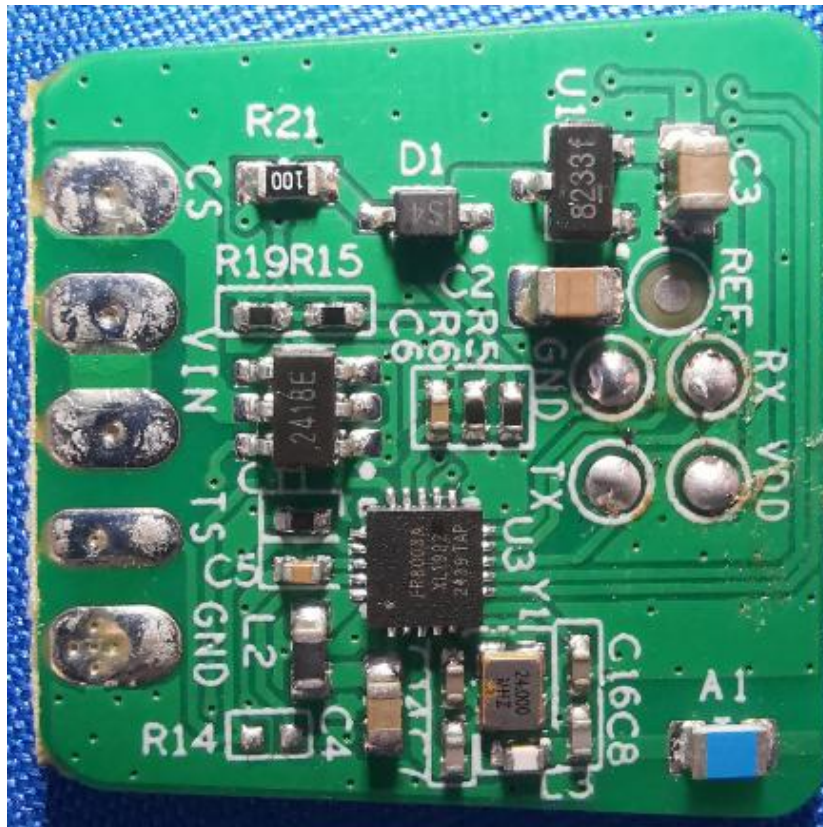
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Test equipment calibration



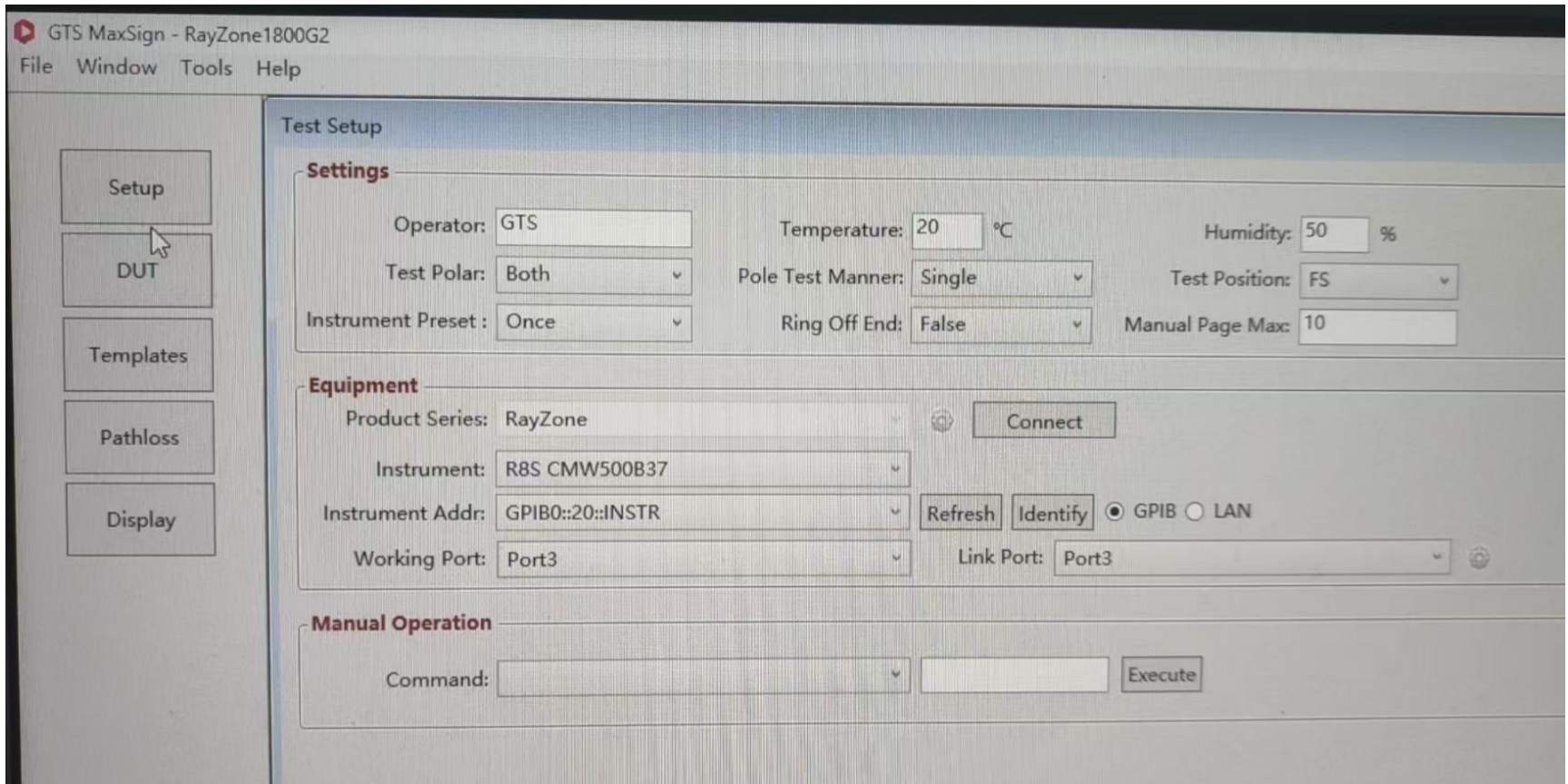
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FR8003 Bluetooth model



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Test equipment for commercial software



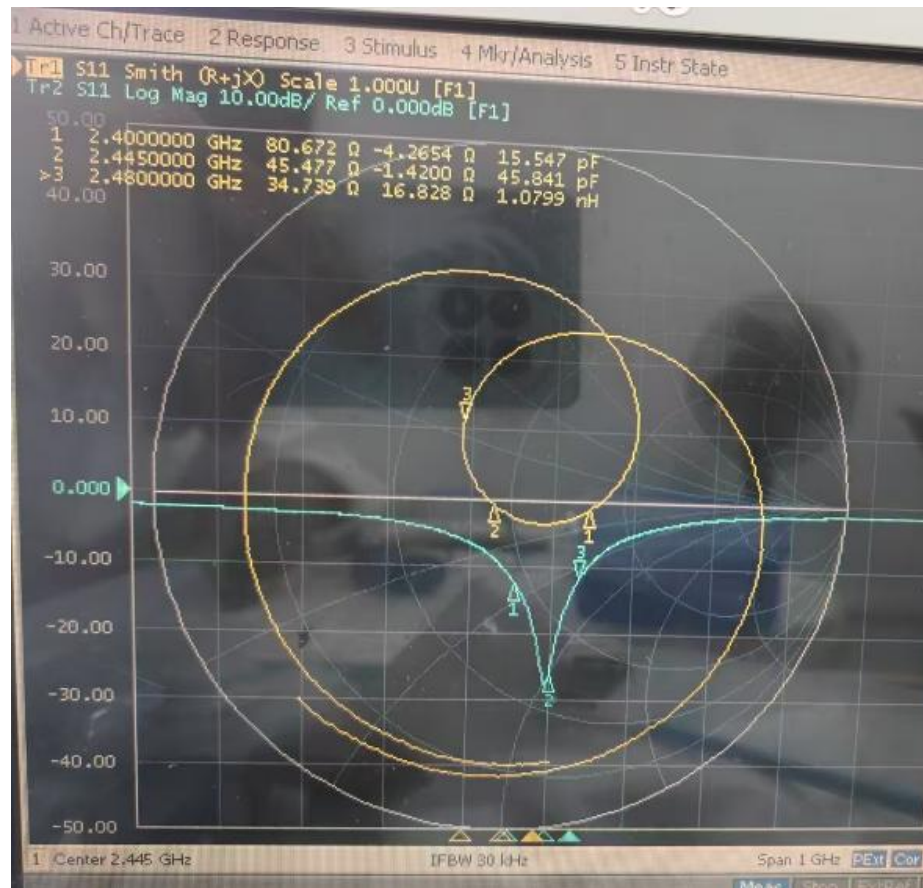
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Test results

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	2.7899	-2.9335	50.8915
2410	2.8464	-2.9084	51.1872
2420	2.9164	-2.9630	50.5472
2430	2.9276	-2.9655	50.5183
2440	3.2087	-2.7868	52.6404
2450	3.2623	-2.7926	52.5708
2460	3.0734	-2.9622	50.5572
2470	3.2790	-2.8027	52.4480
2480	3.4485	-2.6348	54.5157
2490	3.4039	-2.6643	54.1469
2500	3.4354	-2.6270	54.6137

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The network debugs the antenna S parameter



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OTA free field data

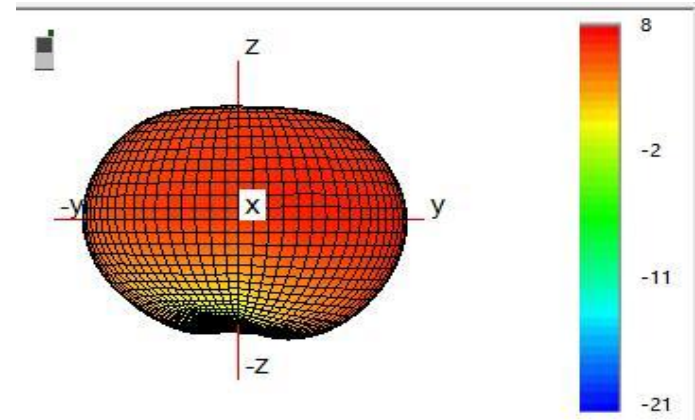
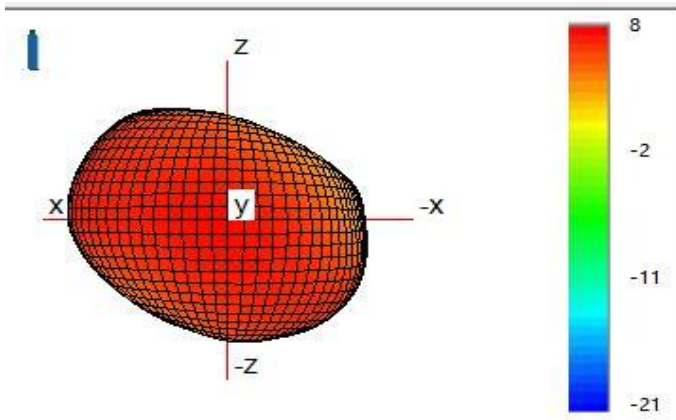
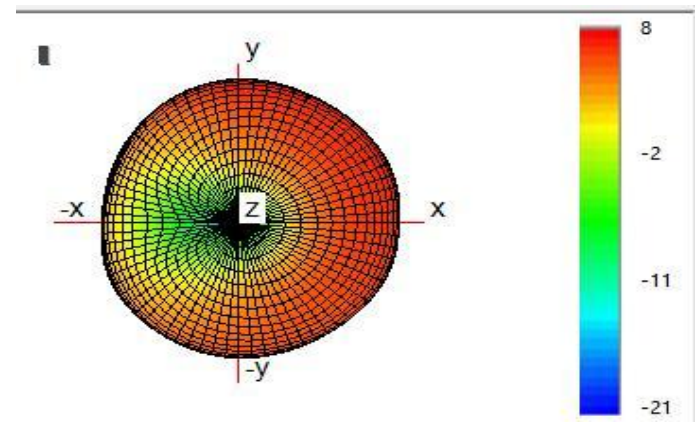
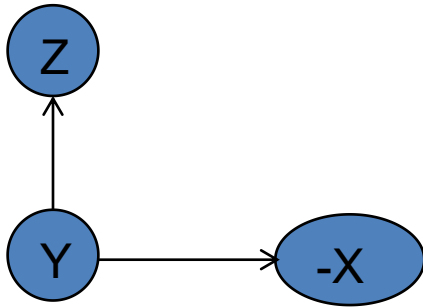
	Channel	TRP功率 (dBm)	TIS灵敏度 (dBm)
L	CH 0	5.645191347	-89.44134584
	CH 39	7.732432261	-90.00377088
	CH 78	6.414439484	-90.70531548

	Channel	TRP功率 (dBm)	TIS灵敏度 (dBm)
R	CH 0	5.756207481	-88.37160597
	CH 39	6.838599835	-90.35589496
	CH 78	7.653103237	-91.10708074

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OTA free field type

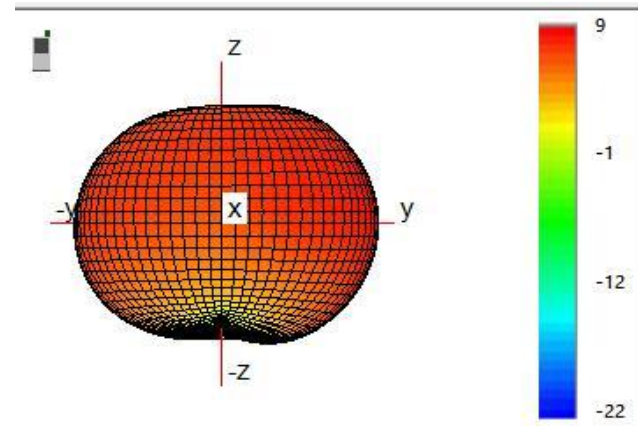
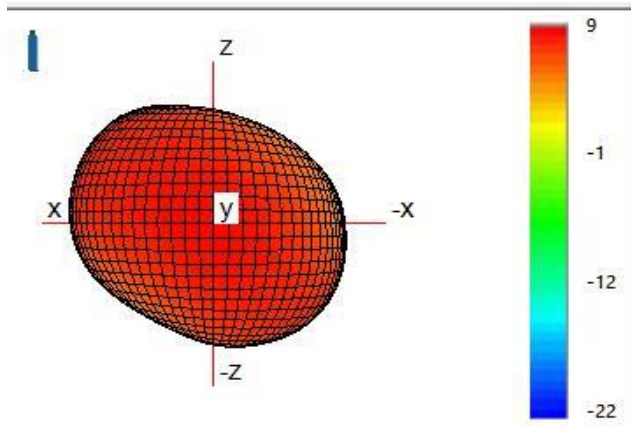
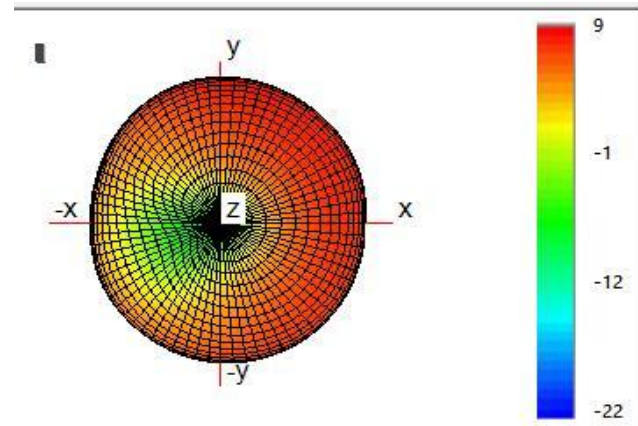
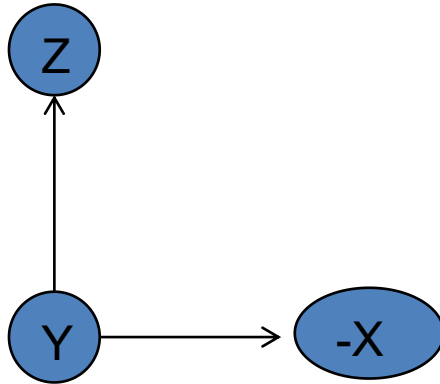
L: Field diagram



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OTA free field type

R: Field diagram



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Thanks for Your Attention