



RTANT

Rtant Communications Co., Ltd

Antenna Commissioning & Test Report

Client: Locsmart Project: Beacon

Antenna Engineer: Wu Hui Qin

Date: 2022-03-21

Version: Vo Project manager: Jiang Lei 158999112



Project
Debug

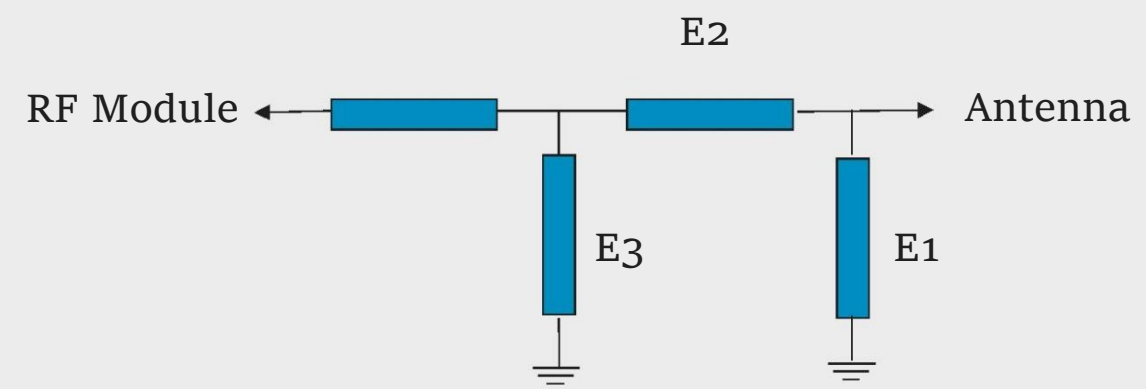


RTANT

Product	Beacon			
	Antenna types	channel me	Antern form	matching change
	BT	2400-2483.5MHz	Single Pole	No
Antenna Material	Onboard antenna			



RTANT



	Element	Value
	E1	No change
	E2	No change
	E3	No change



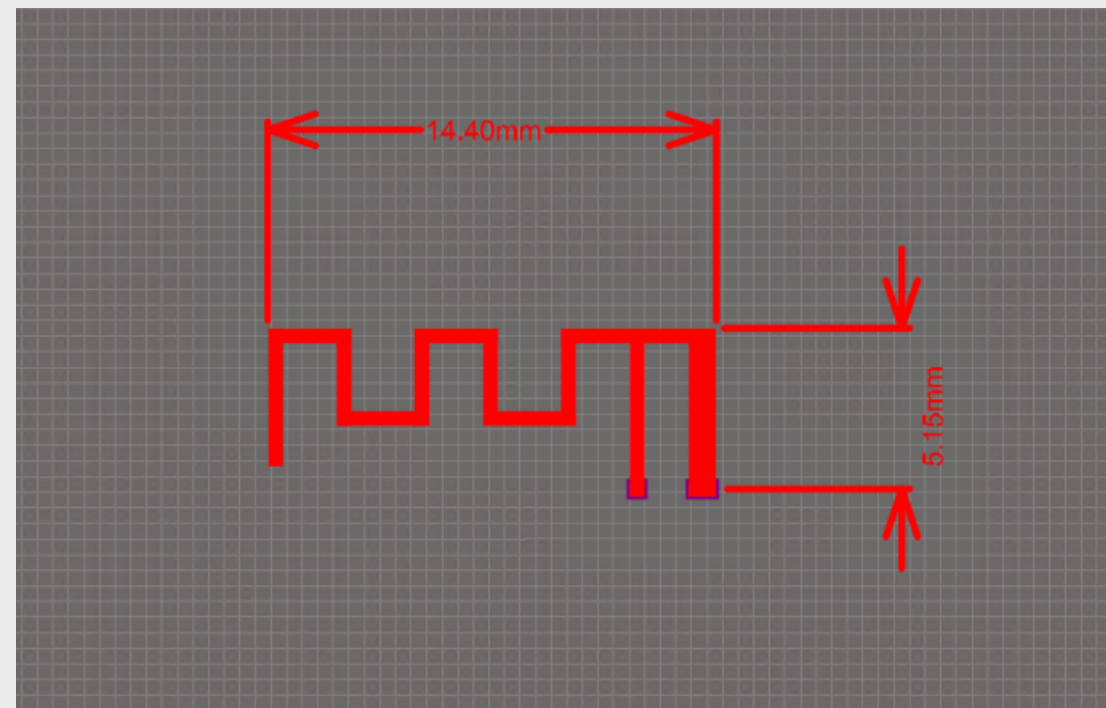
Locsmart IoT Technology (Suzhou) Co., Ltd

Building 16,Creative Industry park,No,328 xinghu street,Suzhou Industrial Park



RTANT

Board antenna size

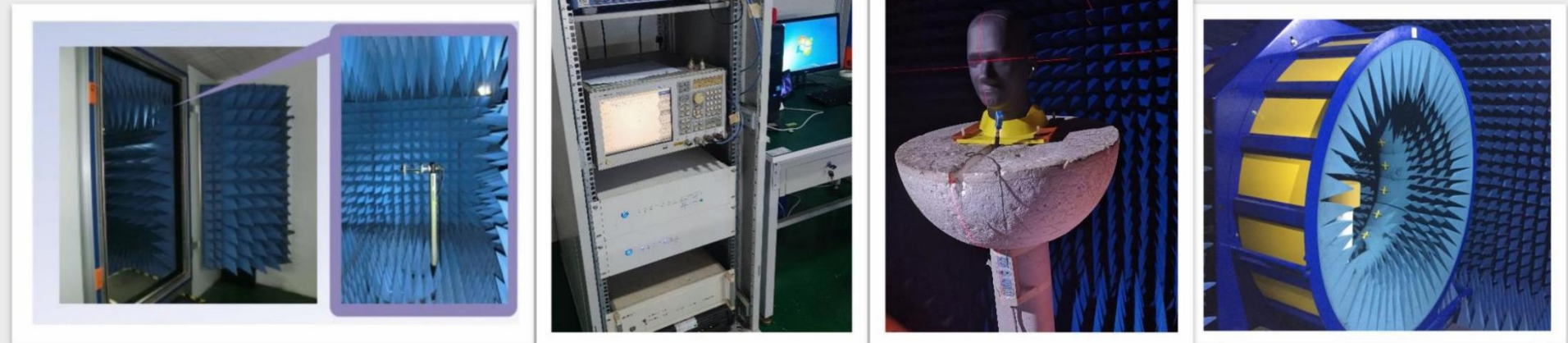




Experiment



RTANT



Test Item	Test Equipment
S11、 S12 、 VSWR 、 LOSS	Network Analyzer E5071B、 E8753D
Efficiency、 Gain、 3D Radiation Pattern	Satimo SG16darkroom 、 E5071B
TRP、 TIS	Satimo SG16darkroom、 CMW500

Mark: Devices for debugging & testing of this project are marked in Blue.



Free Space

1.OTA Passive/Active test

[illegible]

RTANT



IMPORTANT

Frequency	2.4GHz	2.41GHz	2.42GHz	2.43GHz	2.44GHz	2.45GHz	2.46GHz	2.47GHz	2.48GHz	2.49GHz	2.5GHz
Efficiency (%)					3						
Gain (dBi)	2.54	2.78	2.86	2.41	2.09	2.1	1.8	1.68	1.64	1.76	1.15

[illegible]

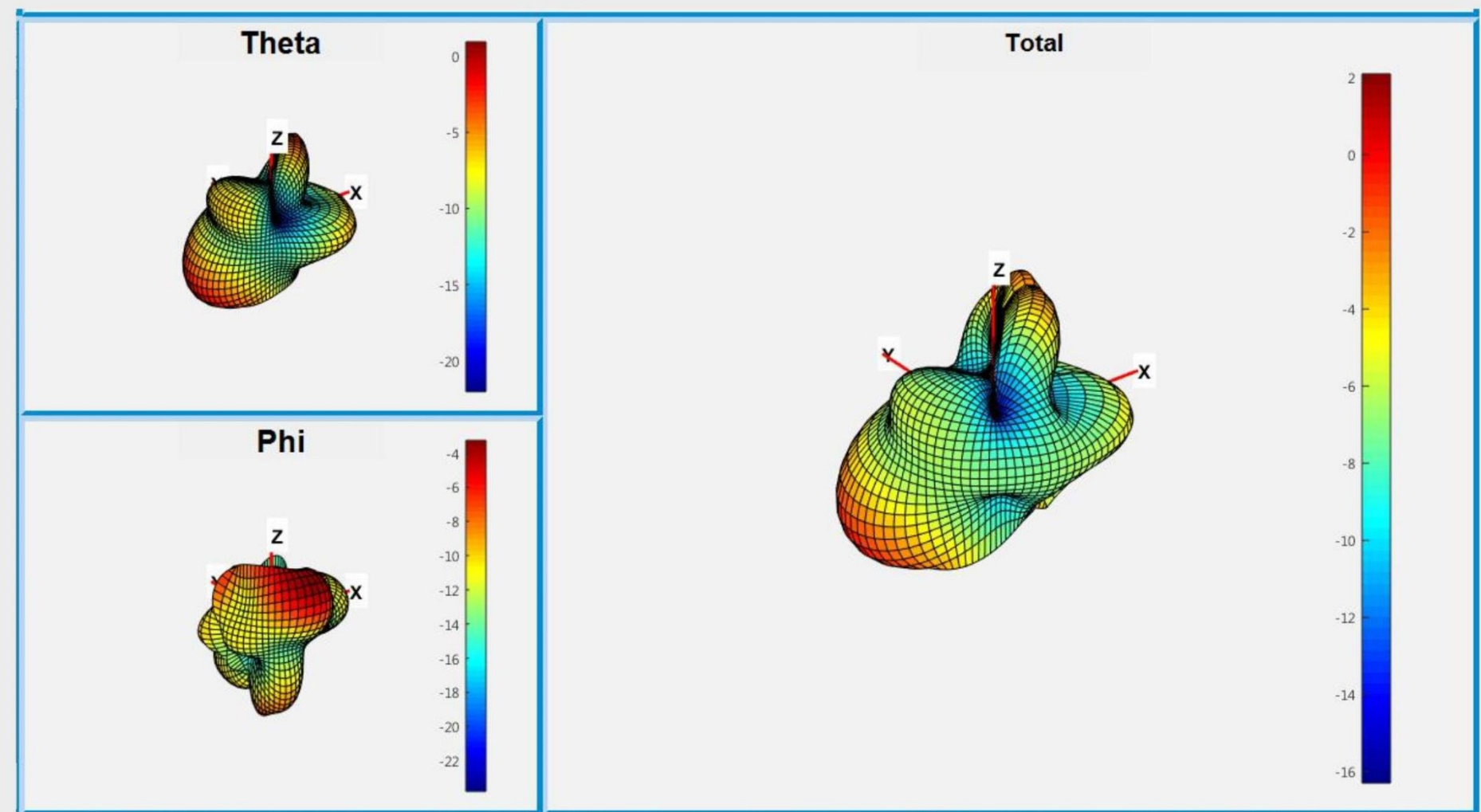


Free
Space
OTA
Active
test
date

3. Direction Pattern (R5 2022) /Passive



RTANT





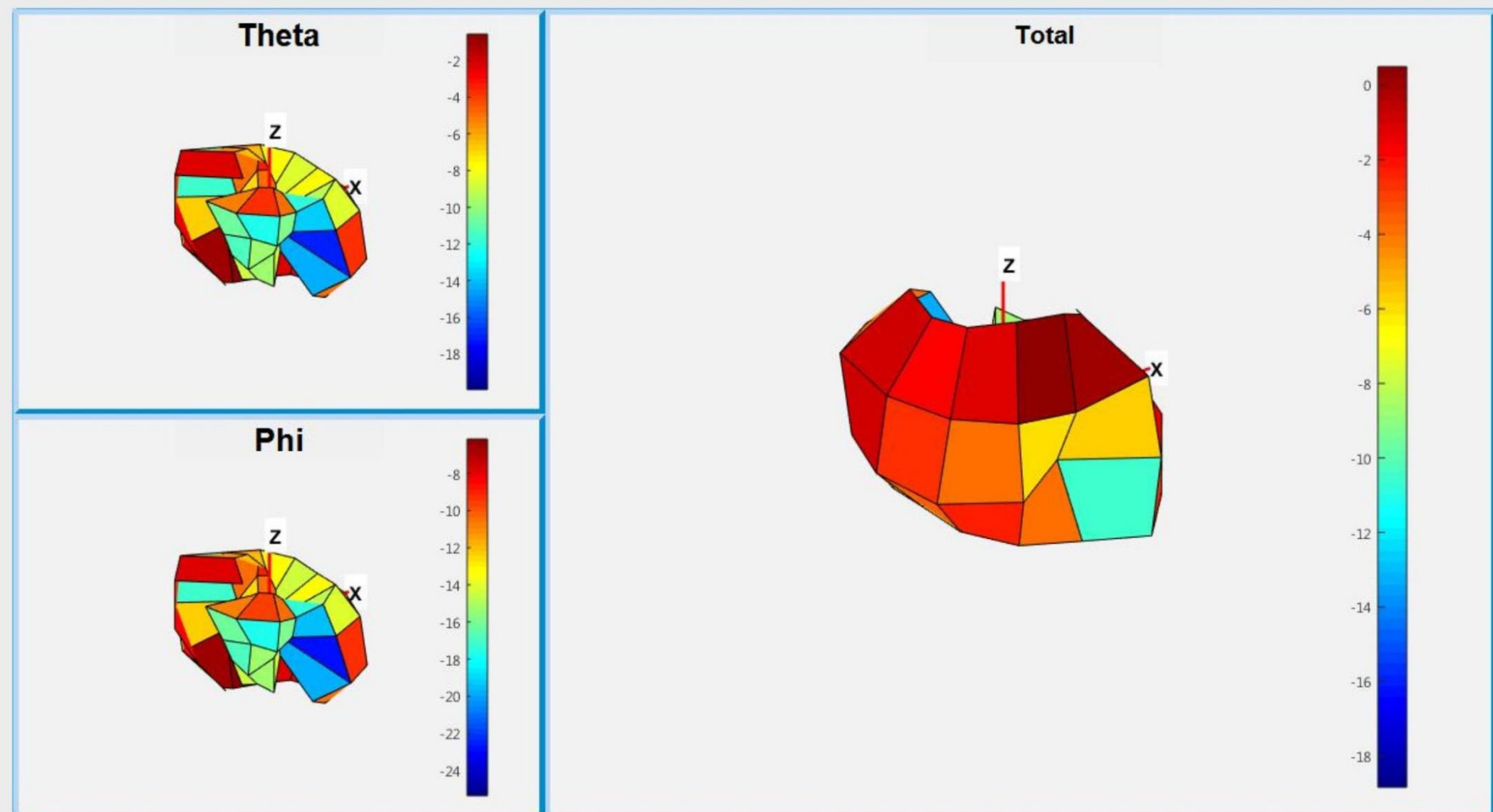
Free
Space

OTA
Active
test
date

4. Direction Pattern (R5 2022 1#) /active 37 path



RTANT





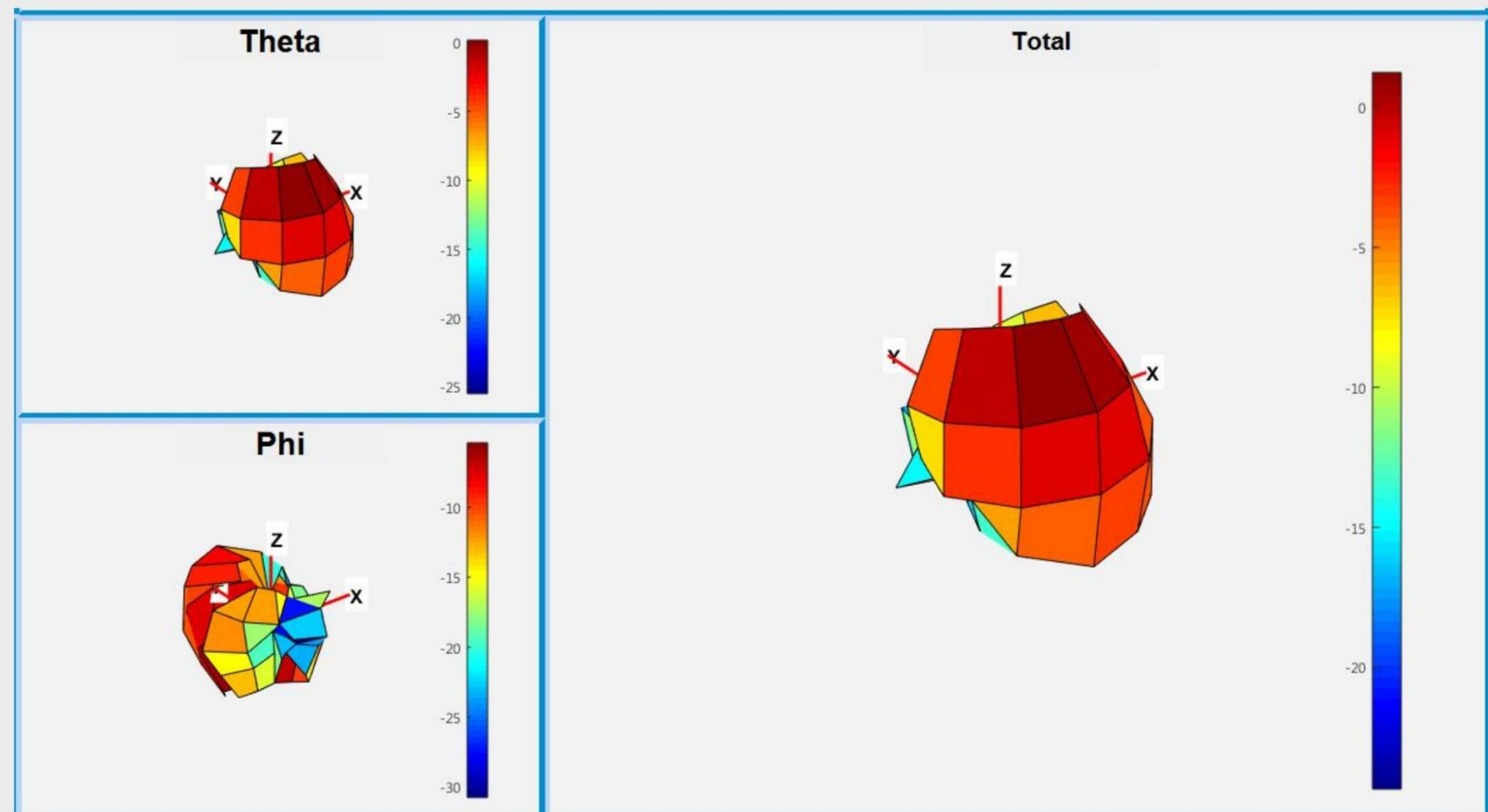
Free
Space

OTA
Active
test
date

5. Direction Pattern (R5 2022 1#) /active 39 path



RTANT





RTANT

Thank you for your trust in Rtant