

[CIP] antenna test result

20251029



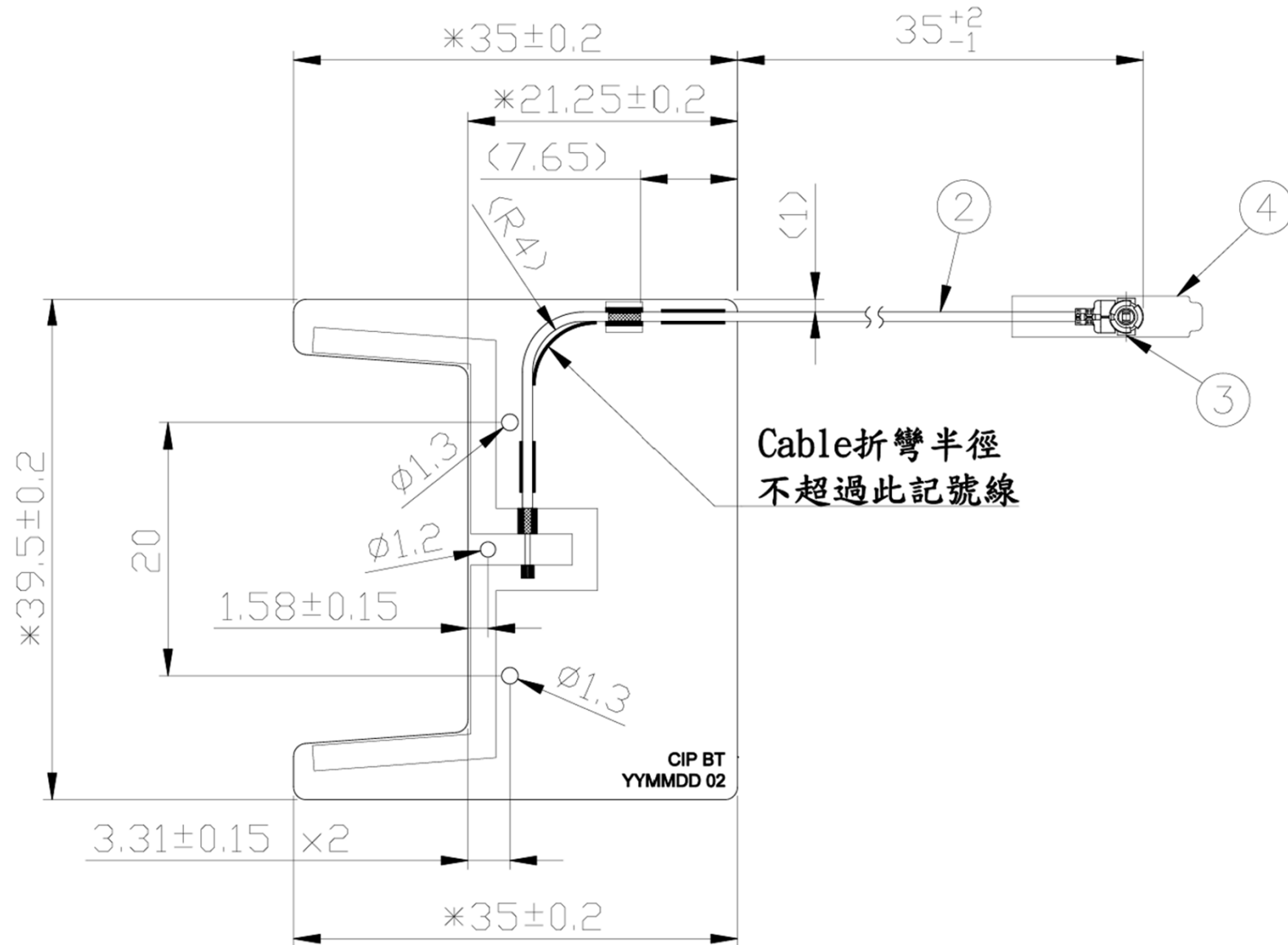
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Antenna Spec

Project Name		Ecg1202(CIP)
Antenna Application 天線應用		Bluetooth Antenna
Antenna Type 天線型式		FPC Antenna
Supplier 天線製造商		Pulse (Suzhou) Wireless Products Co., Ltd
Supplier Address 天線製造商地址		No.99 Huo Ju Road, Suzhou New District Jiangsu Province, Suzhou 215009, P.R. China
Part Number		<u>TQ34643</u>
Antenna and metal distance 天線與金屬距離	Vertical 垂直	1 mm
	Horizontal 水平	1 mm



Antenna (FPC Antenna)



Antenna Placement(FPC Antenna)

Antenna and metal destance 天線與金屬距離	天線輻射體只有少部分距離金屬3.5mm， 大部分輻射體距離金屬7.5mm
PCB Clear Zone PCB淨空區	None，PCB主板離天線7mm

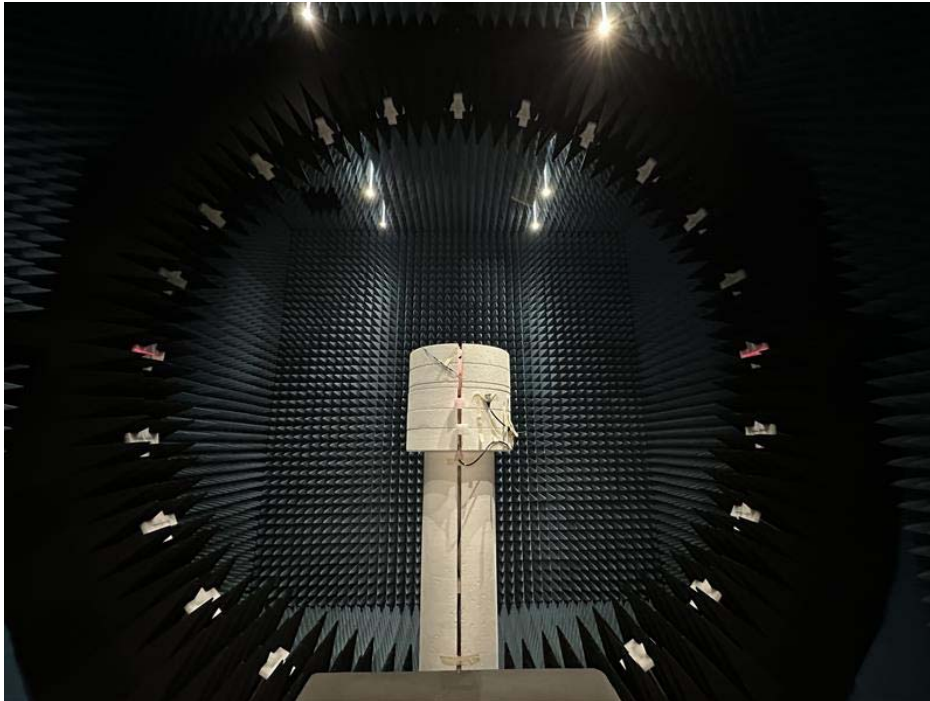


BT Antenna Performance

Frequency (MHz)	Efficiency(Free space)	Peak Gain(Free space)
2400	-4.58 dB(34.82%)	0.33 dBi
2420	-4.45 dB(35.86%)	0.34 dBi
2440	-4.37 dB(36.53%)	0.61 dBi
2460	-4.64 dB(34.32%)	0.23 dBi
2480	-4.77 dB(33.34%)	0.18 dBi
Average	-4.56 dB(34.96%)	0.34 dBi

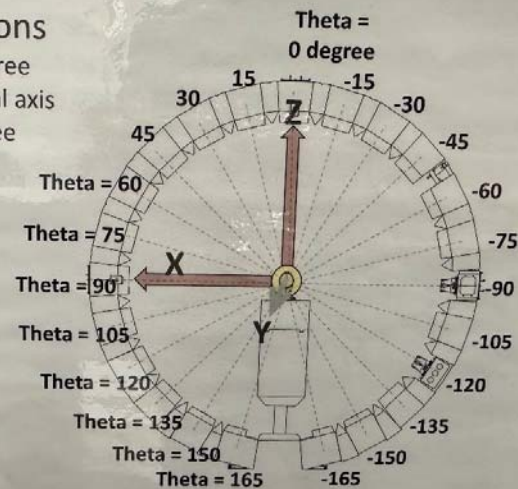


EUT Setup Photograph(Free space)



 X, Y and Z directions

- X $\rightarrow$ Theta = 90 degree
- Y $\rightarrow$ Theta rotational axis
- Z $\rightarrow$ Theta = 0 degree



 ETS-LINDGREN

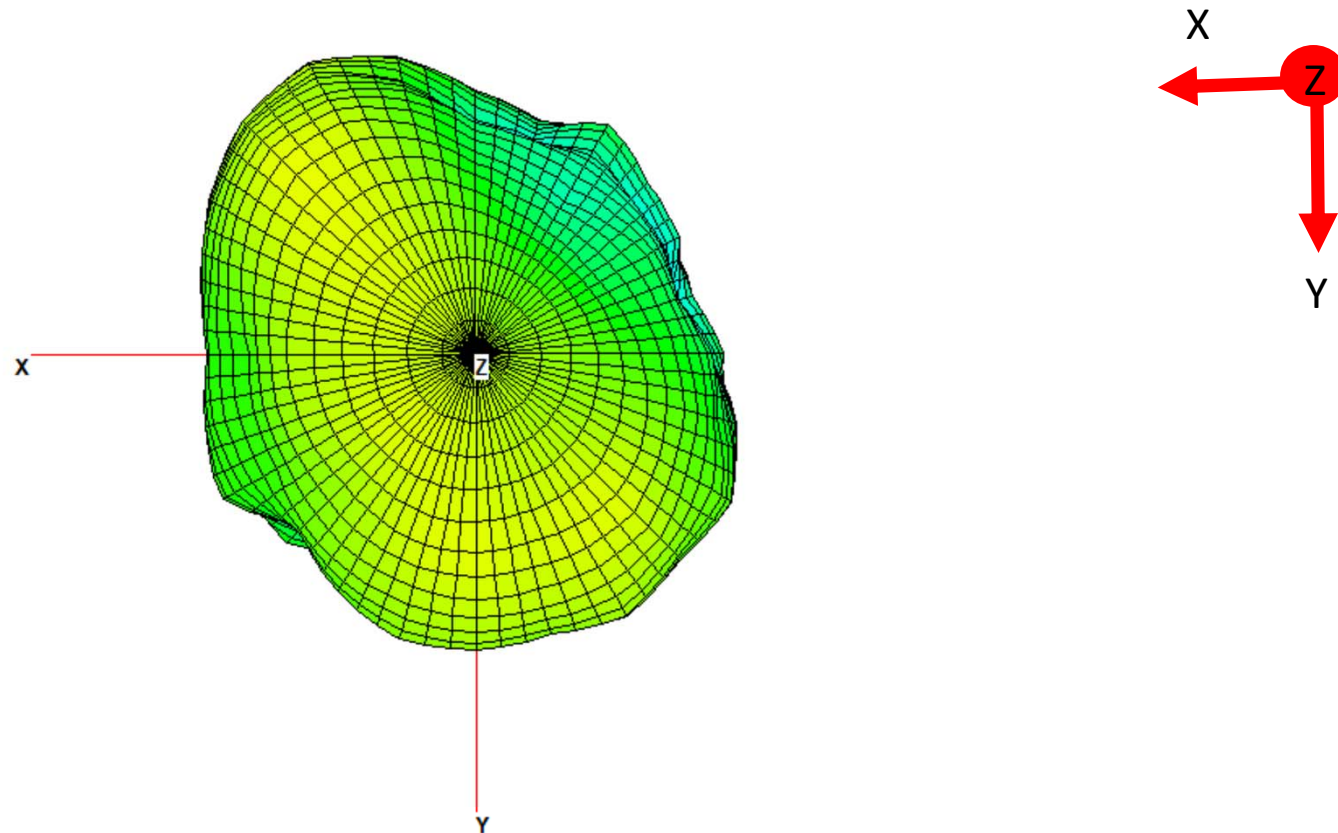


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3D Pattern(2400MHz)

Total

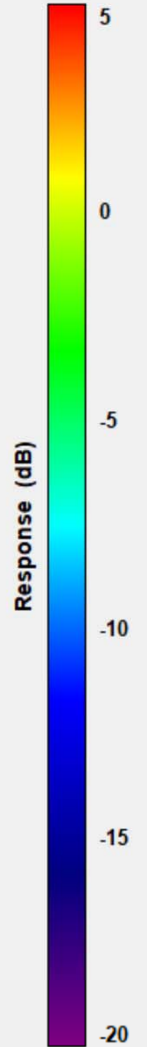
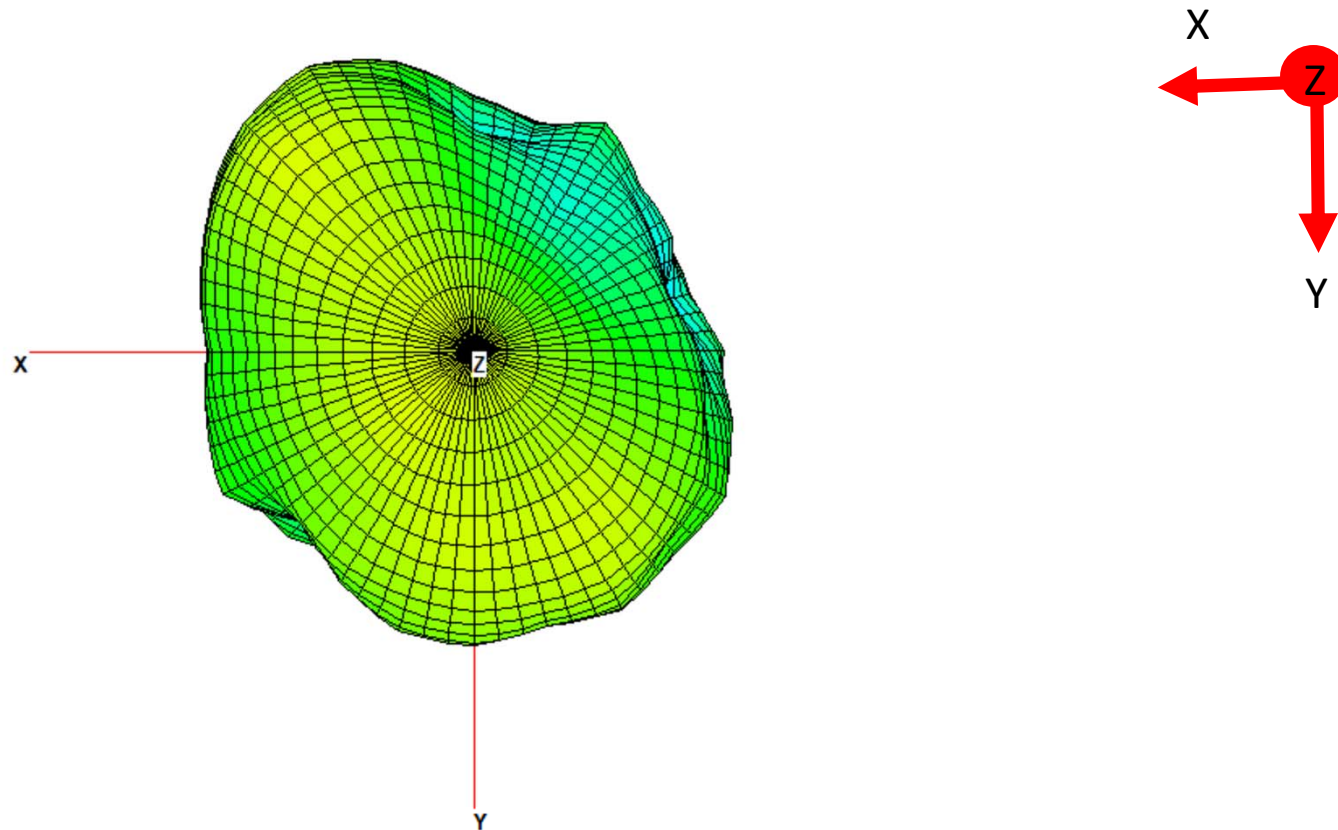
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Roll = 0.0



3D Pattern(2420MHz)

Total

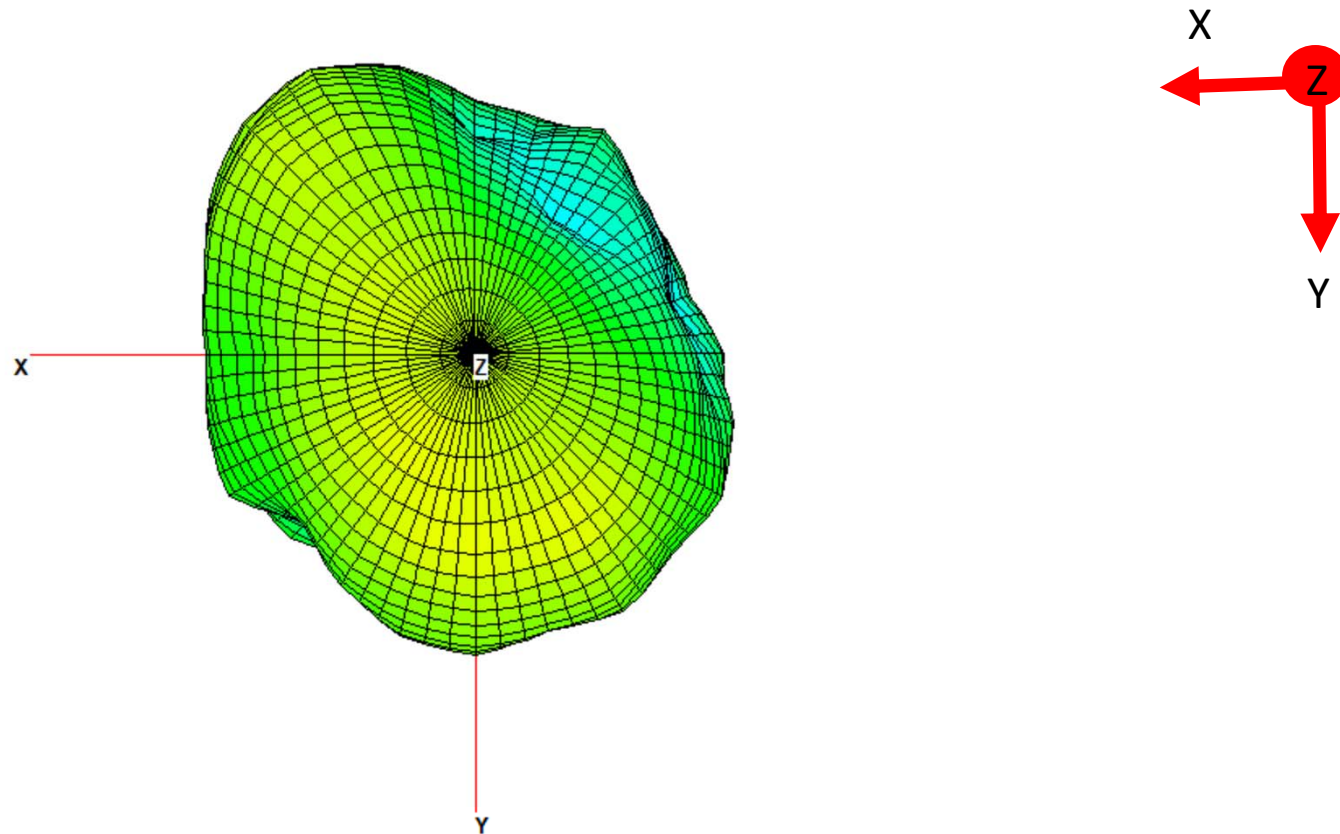
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3D Pattern(2440MHz)

Total

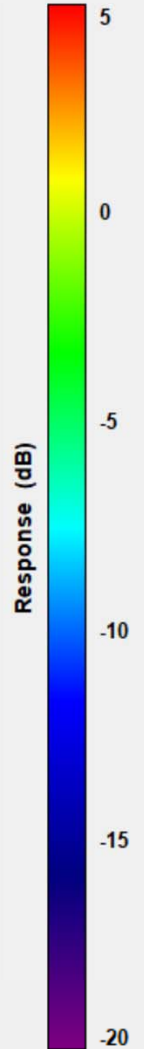
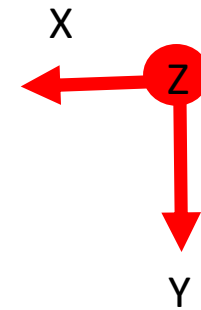
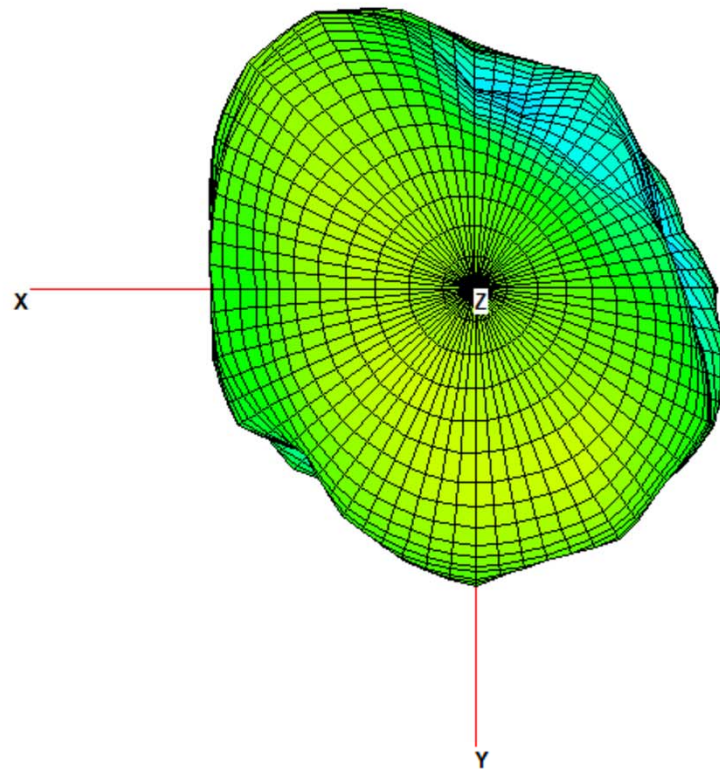
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Roll = 0.0



3D Pattern(2460MHz)

Total

Azimuth = -180.0
Elevation = 0.0
Roll = 0.0



3D Pattern(2480MHz)

Total

Azimuth = -180.0
Elevation = 0.0
Roll = 0.0

