



## **TEST AND CALIBRATION DATA**

**Short Period OBS System**

**Serial No. T6J76/A4290/5172**

**DESIGNED AND MANUFACTURED BY:**

**GÜRALP SYSTEMS LIMITED  
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## DM24 CALIBRATION

**WORKS ORDER:** 13072

**DIGITISER SERIAL NUMBER:** A4290

SYSTEM ID: 13072  
UNIT ID: 4290  
OUTPUT DATA FORMAT: GCF  
BAUD RATE: 38400

CPLD: A0.E1  
BOOTLOADER: MK3BOOT213.IMG  
DSP SOFTWARE: DSP1090.BIN  
SYSTEM: DMNET106b57d.IMG

### VELOCITY CHANNELS

Channel:	4290Z2	Vertical	2.872 $\mu\text{V}/\text{Count}$
	4290N2	North/South	2.873 $\mu\text{V}/\text{Count}$
	4290E2	East/West	2.873 $\mu\text{V}/\text{Count}$

### MASS POSITION CHANNELS

Sample Rate: 4 samples/sec (Default)

Channel:	4290M8	Vertical	290.654 $\mu\text{V}/\text{Count}$
	4290M9	North/South	291.384 $\mu\text{V}/\text{Count}$
	4290MA	East/West	291.320 $\mu\text{V}/\text{Count}$

Sample Rate: 1 samples/sec

Channel:	4290M8	Vertical	2.271 $\mu\text{V}/\text{Count}$
	4290M9	North/South	2.276 $\mu\text{V}/\text{Count}$
	4290MA	East/West	2.276 $\mu\text{V}/\text{Count}$

### CAL SIGNAL MONITOR

4290X2	2.872 $\mu\text{V}/\text{Count}$
4290C2	0.424 $\mu\text{V}/\text{Count}$

### GPS RECEIVER

PWM: 8000 Counts  
At Temperature Reading: 23°C

### POWER CONSUMPTION

Digitiser Power Consumption  
GPS Power Consumption

80mA @ 12v  
28mA @ 12v

## AUXILIARY CHANNELS

Sample Rate: 4 samples/sec (Default)

Channel:	4290MB	290.976 $\mu\text{V}/\text{Count}$
	4290MC	291.148 $\mu\text{V}/\text{Count}$
	4290MD	291.040 $\mu\text{V}/\text{Count}$
	4290ME	290.612 $\mu\text{V}/\text{Count}$
	4290MF	291.062 $\mu\text{V}/\text{Count}$

Sample Rate: 1 samples/sec

Channel:	4290MB	2.273 $\mu\text{V}/\text{Count}$
	4290MC	2.275 $\mu\text{V}/\text{Count}$
	4290MD	2.274 $\mu\text{V}/\text{Count}$
	4290ME	2.270 $\mu\text{V}/\text{Count}$
	4290MF	2.274 $\mu\text{V}/\text{Count}$

## CMG-6TF CALIBRATION SHEET

WORKS ORDER:	13072	DATE:	07-Mar-2013
SERIAL NUMBER:	T6J76	TESTED BY:	S. Goddard

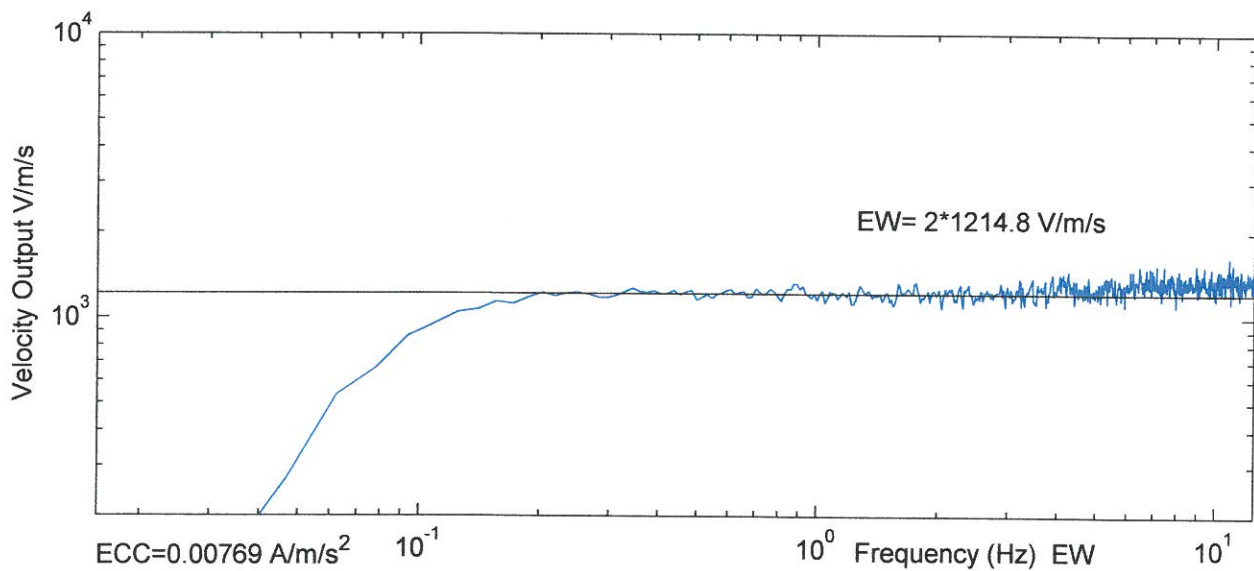
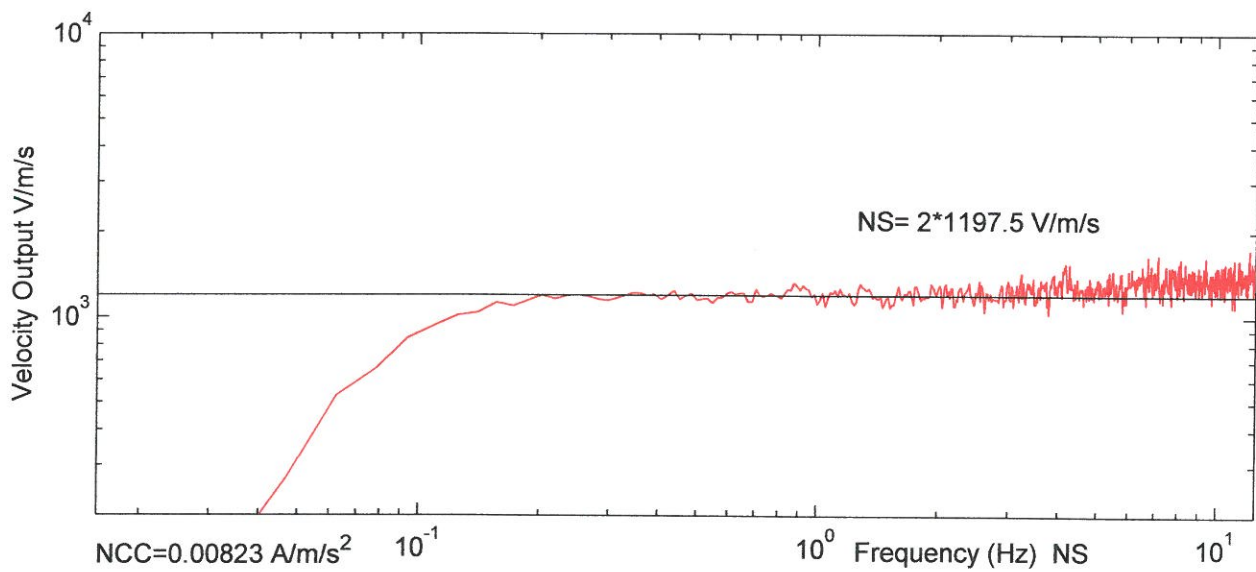
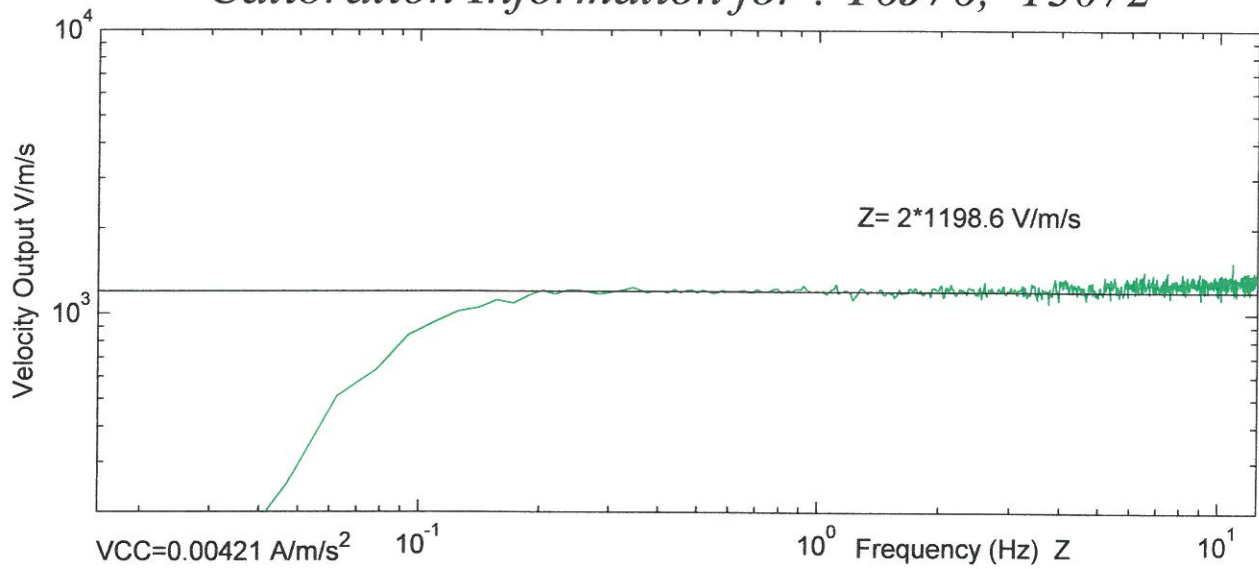
	Velocity Output V/m/s (Differential)	Mass Position Output (Acceleration output) V/m/s <sup>2</sup>	Feedback Coil Constant Amp/m/s <sup>2</sup>
VERTICAL	2 x 1199	421	0.00421
NORTH/SOUTH	2 x 1197	420	0.00823
EAST/WEST	2 x 1215	392	0.00769

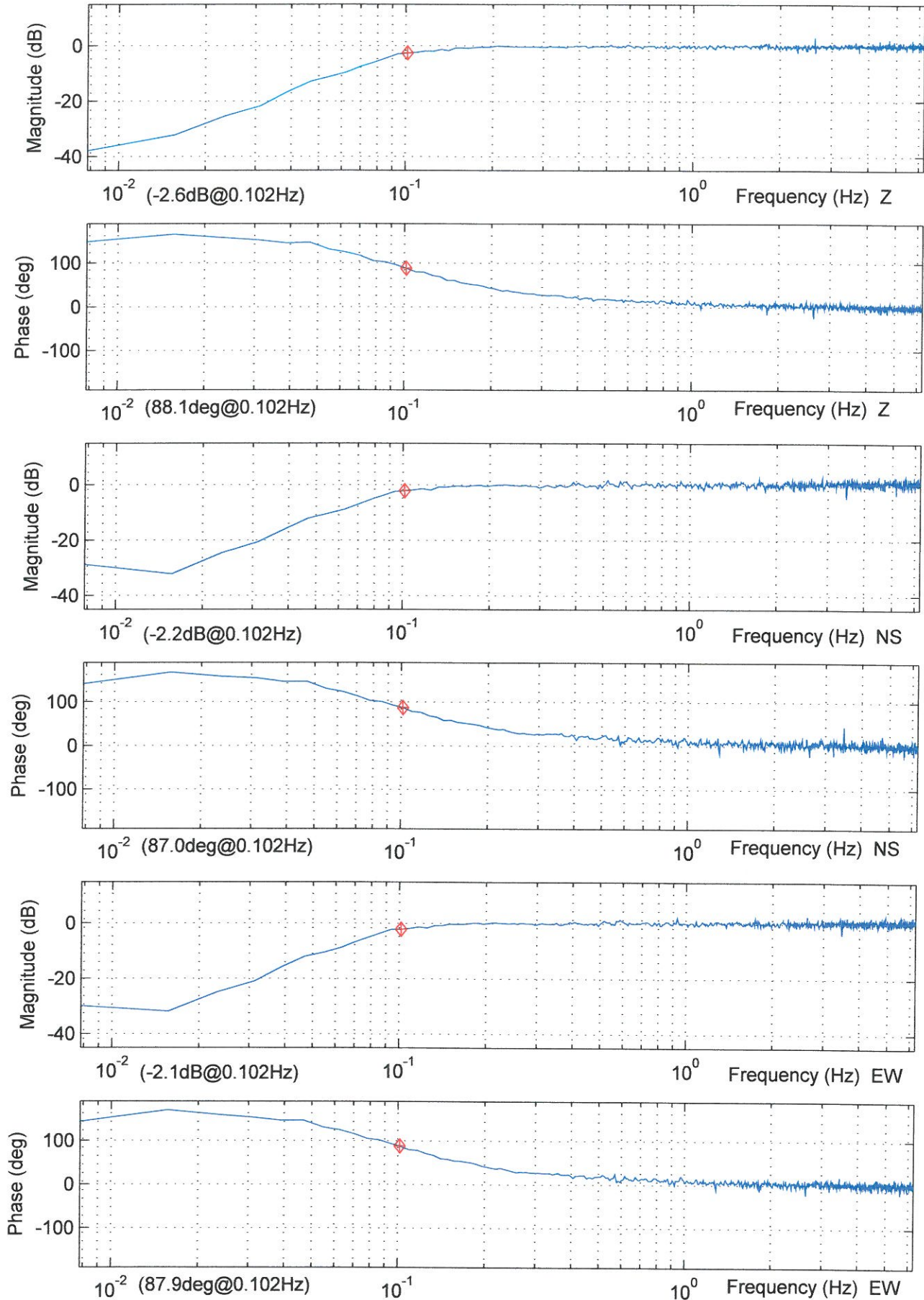
Power Consumption:	20mA @ +12V input
Calibration Resistor:	51000

NOTE: A factor of 2 x must be used when the sensor outputs are used differentially (also known as push-pull or balanced output). Under no conditions should the negative outputs be connected to the signal ground. A separate signal ground pin is provided.

# Calibration Information for : T6J76, 13072

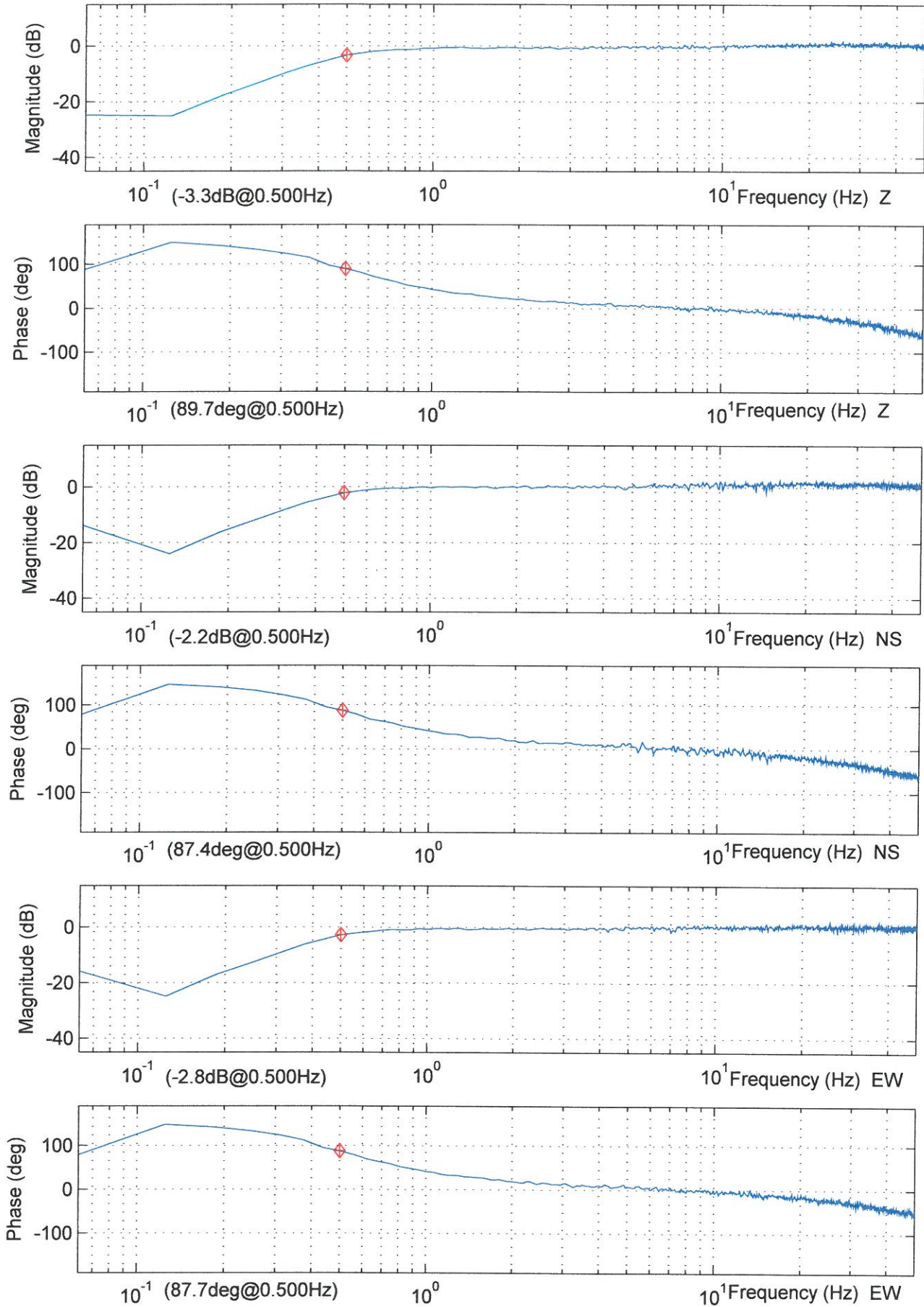


# Normalized Frequency Response for : T6J76, 13072

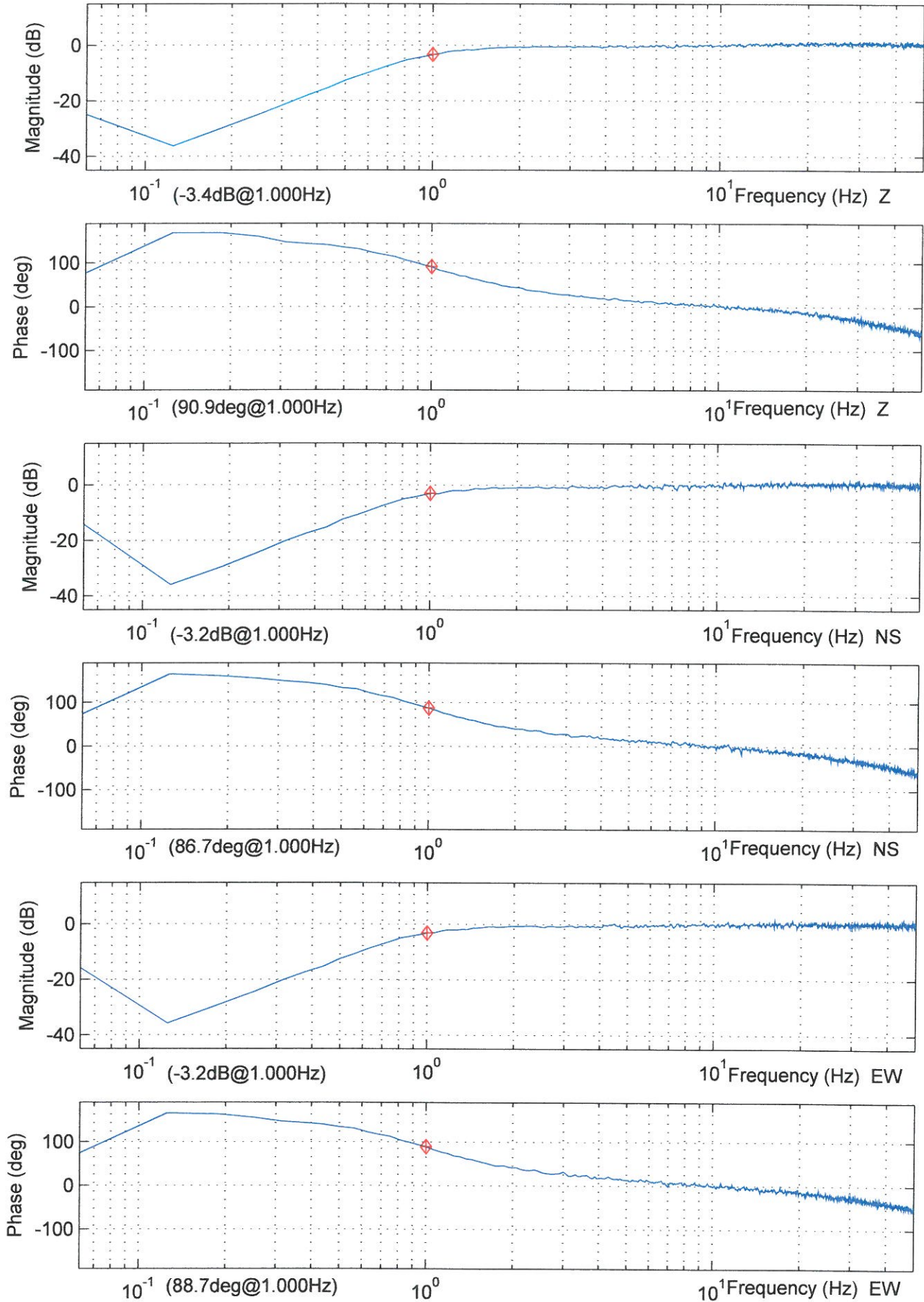




## Normalized Frequency Response for : T6J76, 13072



## Normalized Frequency Response for : T6J76, 13072





# Normalized Frequency Response for : T6J76, 13072

