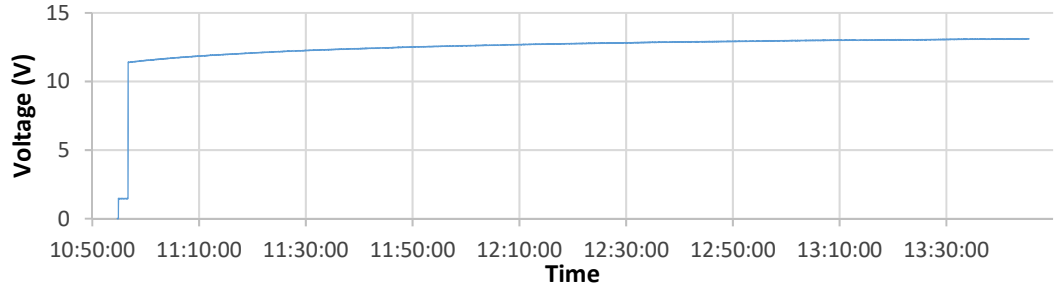
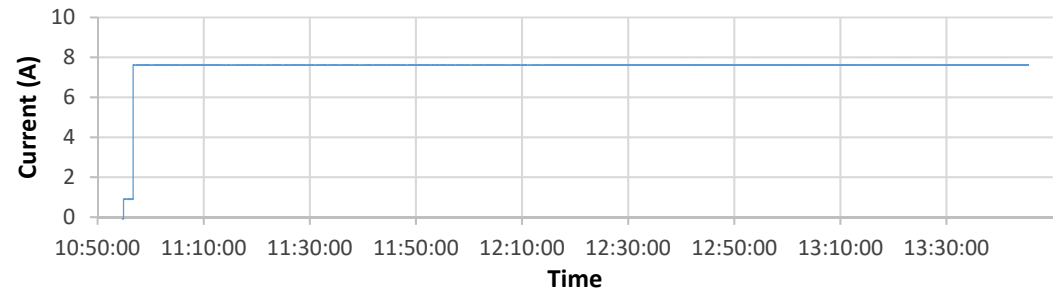
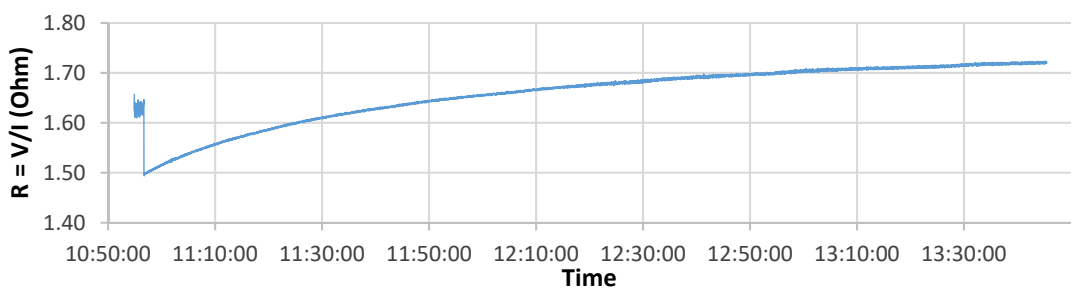
GMW Associates

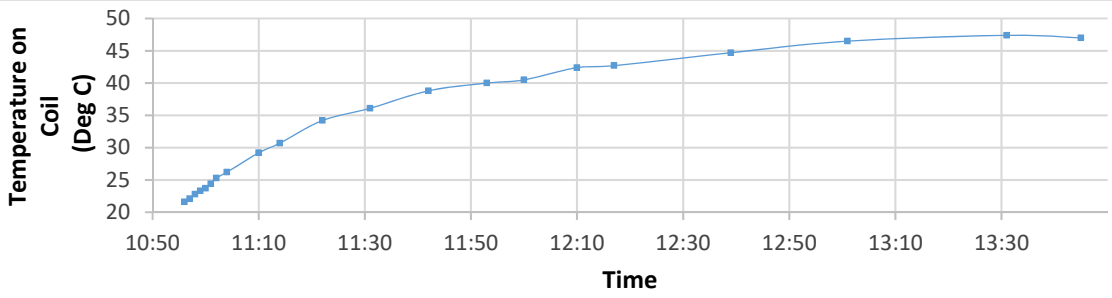
Electromagnet Thermal Stability Plot

Contract No: 23612		Page:	1 of 6	Test Date: 7/13/2017	
Customer:				Engr:	Y.Qin
Model:	3480	Power Supply:		Kepoco 36V/28A MG	
Serial No:	4	PS Serial No:		SN: A109128	
Pole gap:	10mm				
Pole face:	16mm				
Cooling:	air cooled, room temperature = 21 Deg C				
Note 1:	cold R = 14.6V/9.8A = 1.49 Ohm, for magnet and current cable				
Note 2:	Max R = 1.49 Ohm * 1.2 = 1.79 Ohm				
Note 3:	Voltage readback: divider at the terminal of the magnet.				
Note 4:	Current readback: kepco Analog I/O				
Note 5:	Temperature read using SR630 SN:34768. Thermal probe on coil.				
Note 6:	Set I=7.8A				









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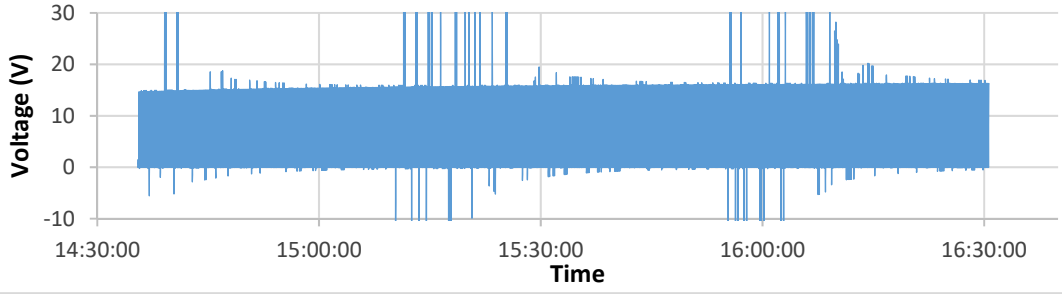
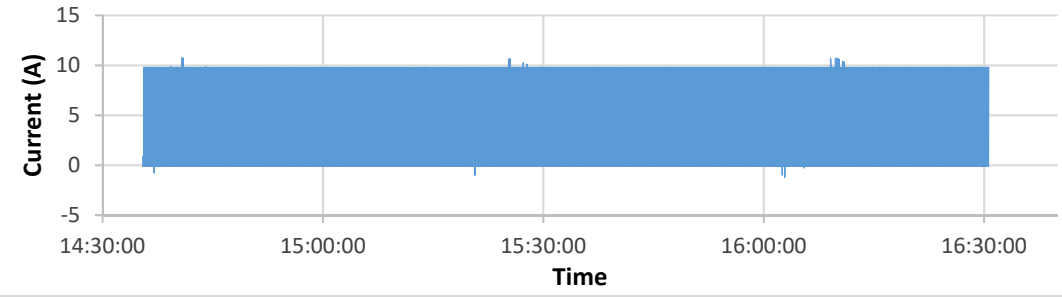
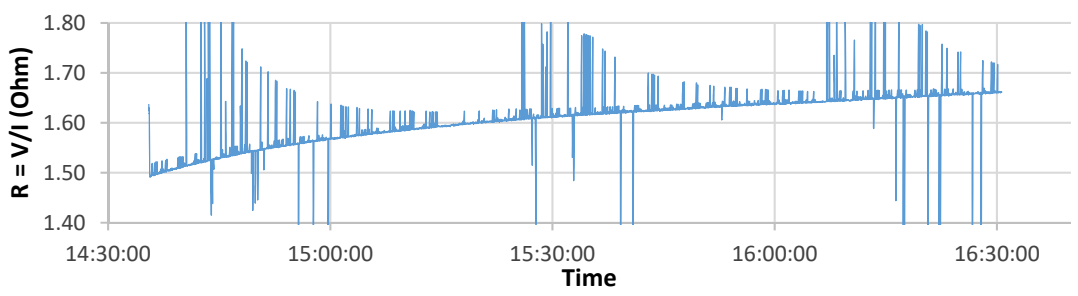
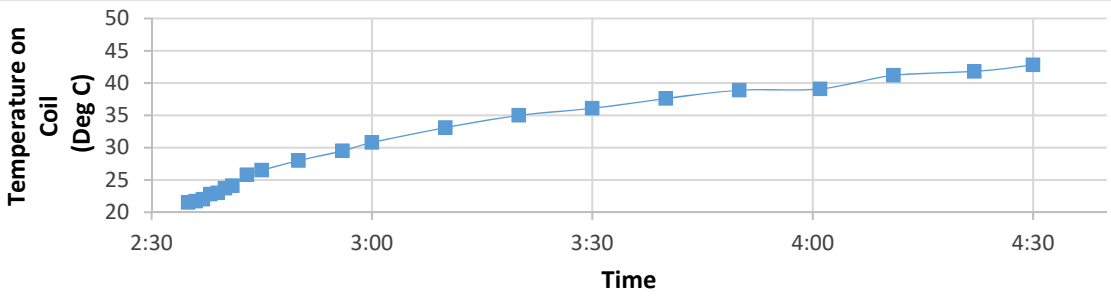
Note 3:	Voltage readback: divider at the terminal of the magnet.				
Note 4:	Current readback: kepco Analog I/O				
Note 5:	Temperature read using SR630 SN:34768. Thermal probe on coil.				
Note 6:	Square waveform. 5A amplitude, 5A offset (10A On/Off, 50% duty cycle). 0.1Hz				









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Electromagnet Thermal Satbility Plot

Contract No: 23612		Page:	3 of 6	Test Date: 7/13/2017	
Customer:				Engr:	Y.Qin
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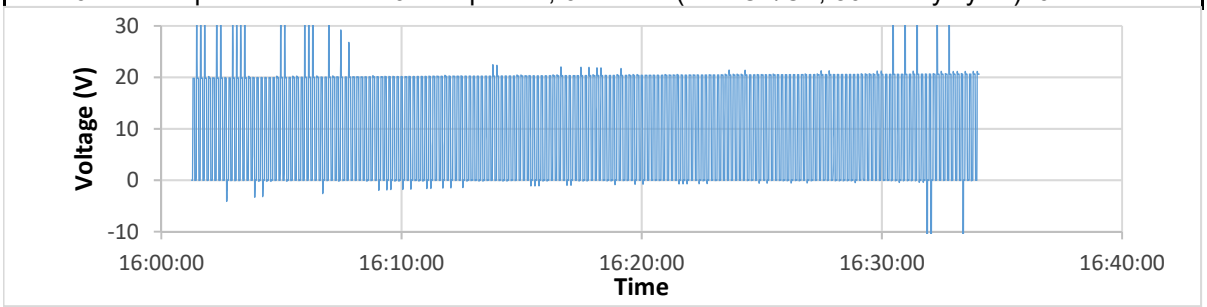
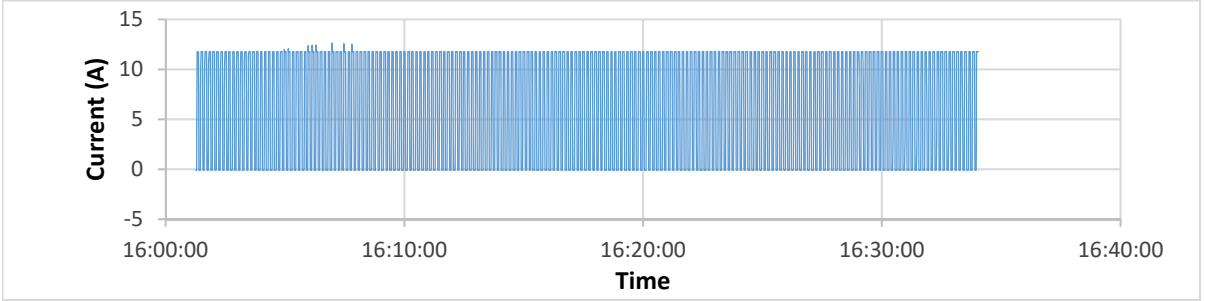
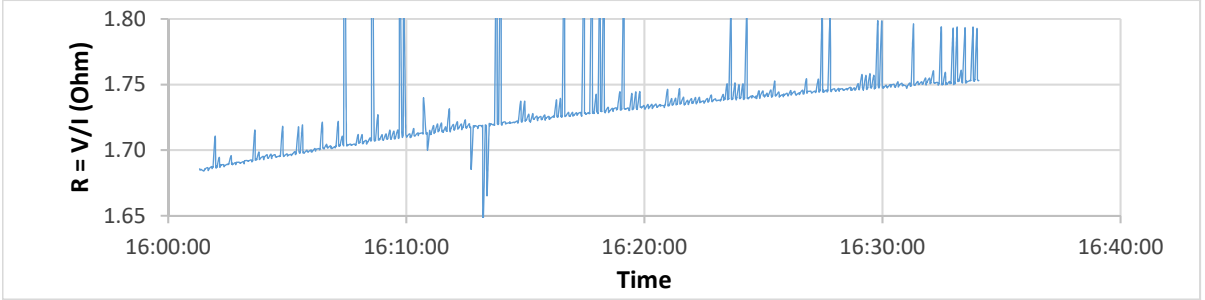
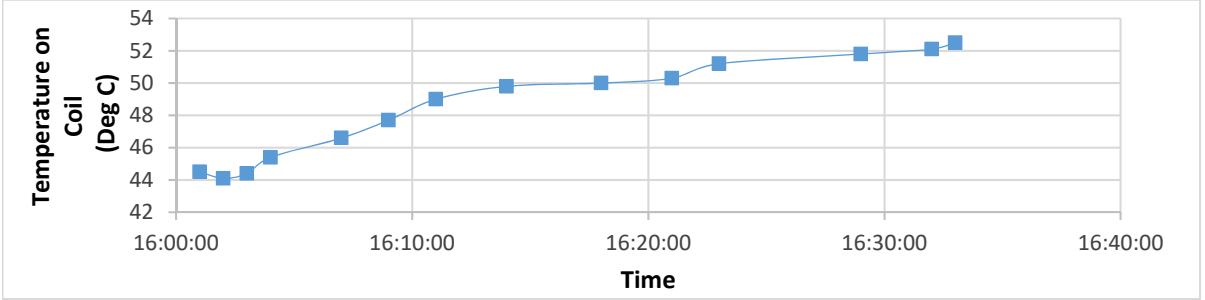
Serial No:	4	PS Serial No:		SN: A109128	
Pole gap:	10mm				
Pole face:	16mm				
Cooling:	air cooled, room temperature = 21 Deg C				
Note 1:	cold R = 14.6V/9.8A = 1.49 Ohm, for magnet and current cable				
Note 2:	Max R = 1.49 Ohm * 1.2 = 1.79 Ohm				
Note 3:	Voltage readback: divider at the terminal of the magnet.				
Note 4:	Current readback: kepco Analog I/O				
Note 5:	Temperature read using SR630 SN:34768. Thermal probe on coil.				
Note 6:	Square waveform. 6A amplitude, 6A offset (12A On/Off, 50% duty cycle). 0.1Hz				









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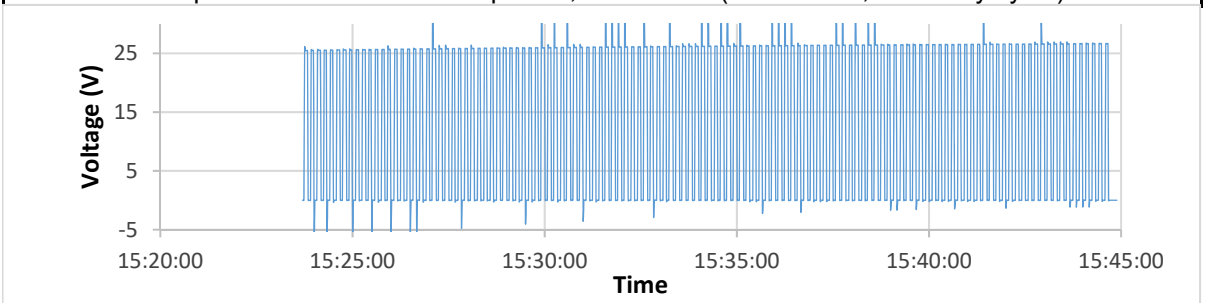
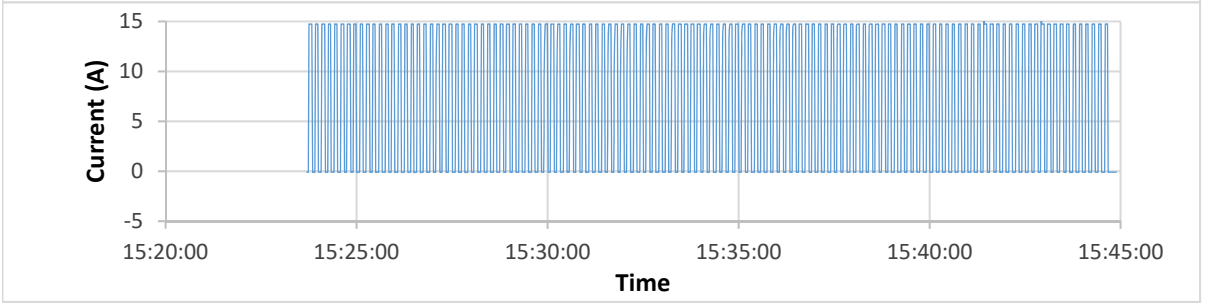
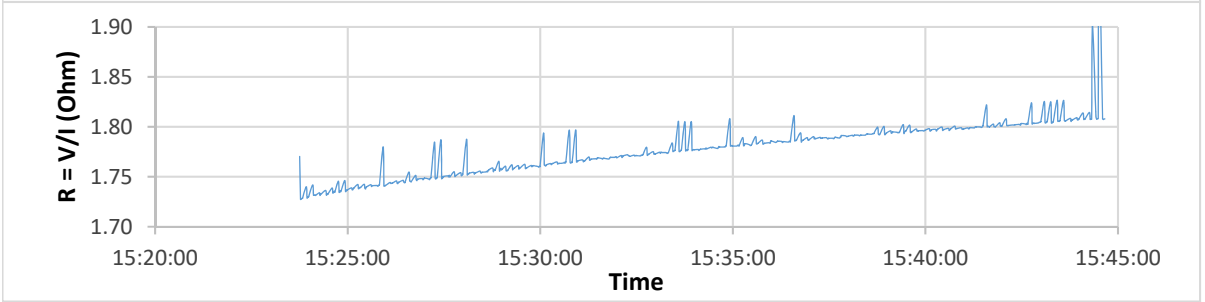
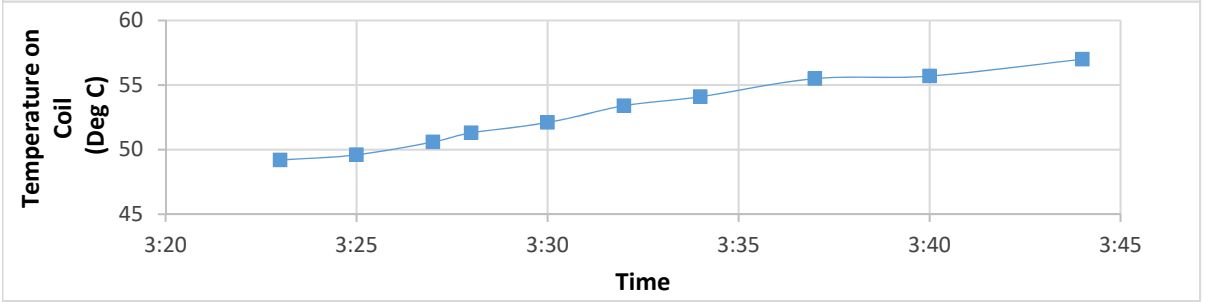
Note 3:	Voltage readback: divider at the terminal of the magnet.				
Note 4:	Current readback: kepco Analog I/O				
Note 5:	Temperature read using SR630 SN:34768. Thermal probe on coil.				
Note 6:	Square waveform. 7.5A amplitude, 7.5A offset (15A On/Off, 50% duty cycle). 0.1Hz				









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Electromagnet Thermal Stability Plot

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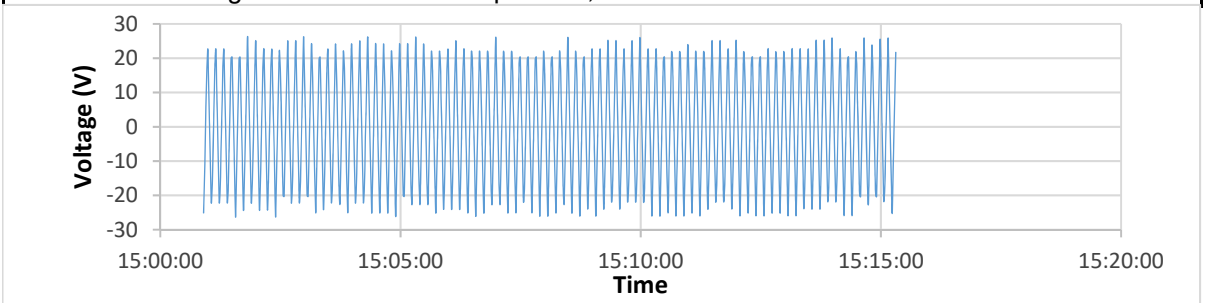
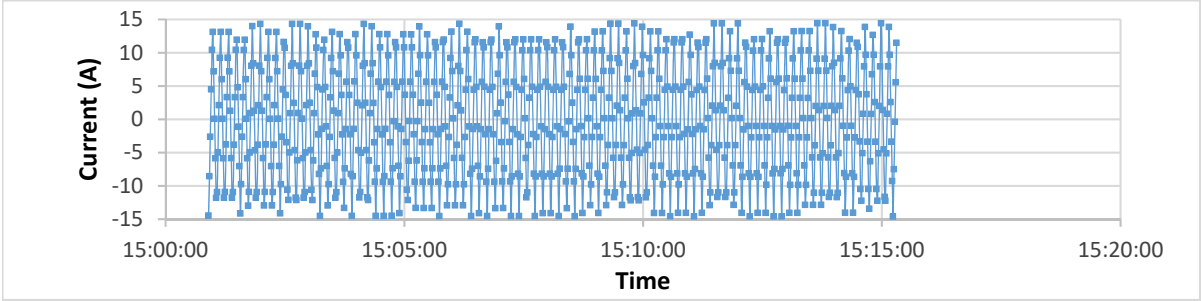
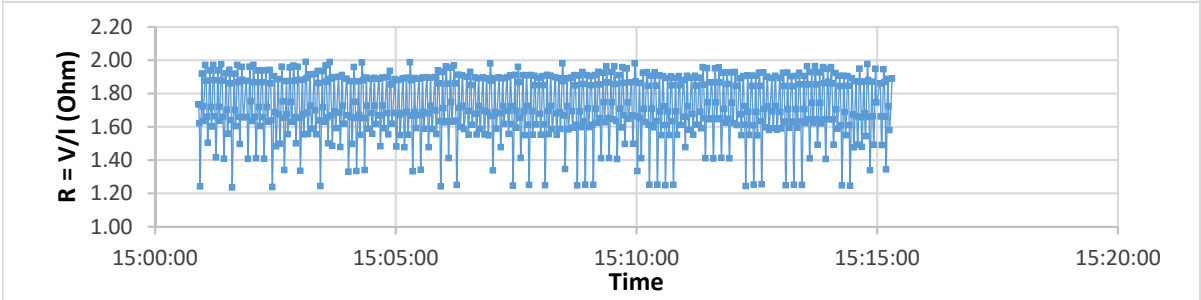
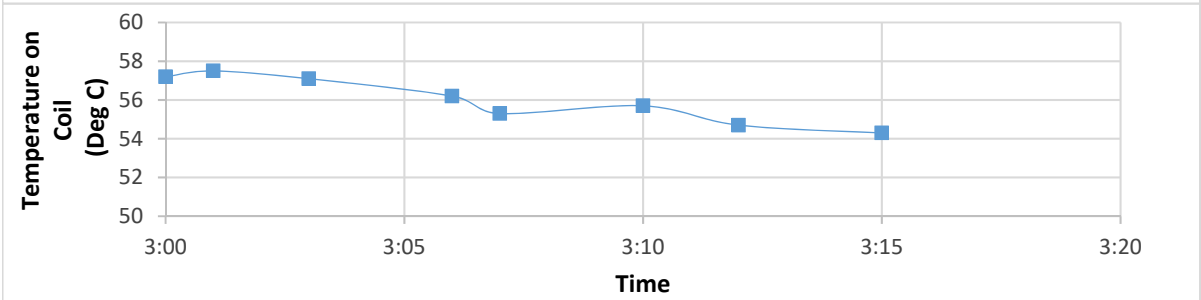
Note 6:	Triangle waveform. 15A amplitudde, 0.1Hz				









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Note 6:	Triangle waveform. 20A amplitudde, 0.1Hz