

ELECTROMAGNET TEST DATA

MODEL 3470

LABORATORY ELECTROMAGNET

Date Sold 9/12/2011

System Components:

GMW model 3470 electromagnet, SN 380, without poles

Kepeco power supply Model 50-8 ML, 50V/8A, SN: 160316

Field Probe: Senis 3M12-2 SN:413 (in-house)

Test Notes:

Kepeco BOP with "L" option.

Poles were removed for faster response. DC Field=0.029T at 5A.

Current readback: DF860R with DAQPad.

Voltage readback: at magnet terminal with DAQPad.

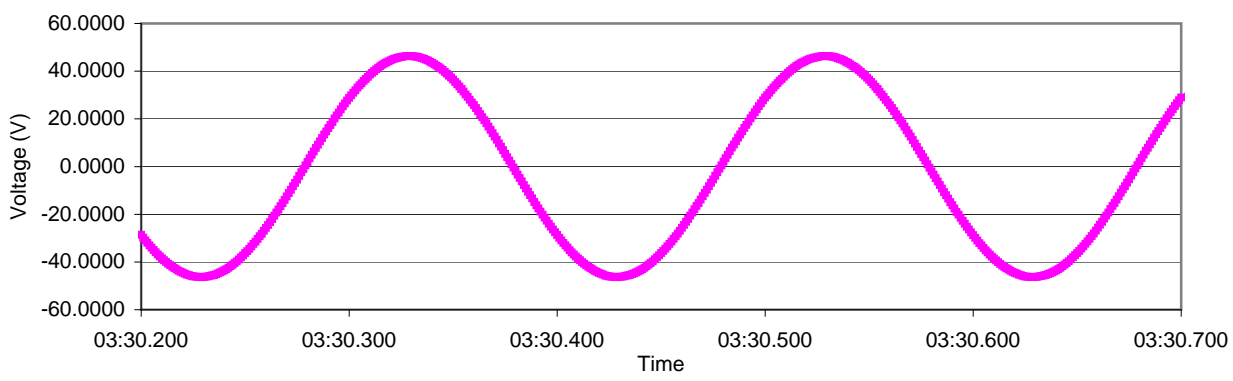
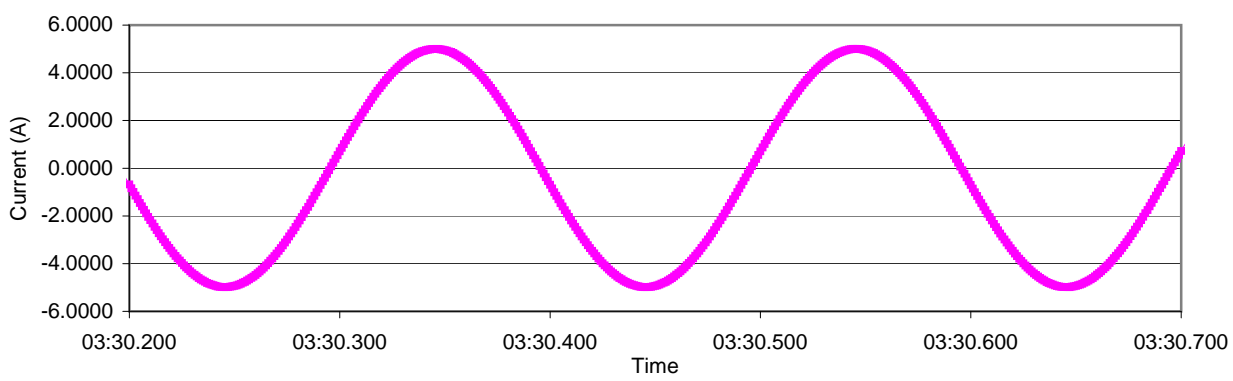
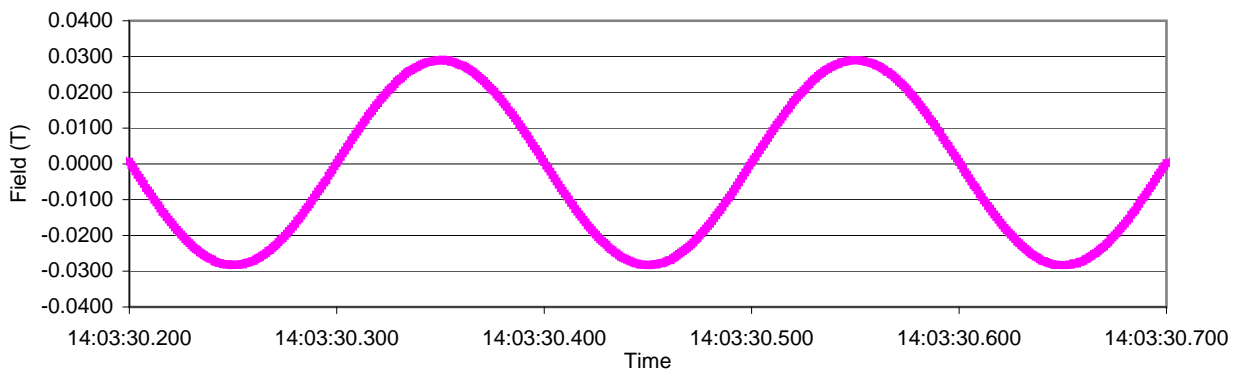
Programming at Kepeco front panel analog input with DAQPad.

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Electromagnet Waveform Plot

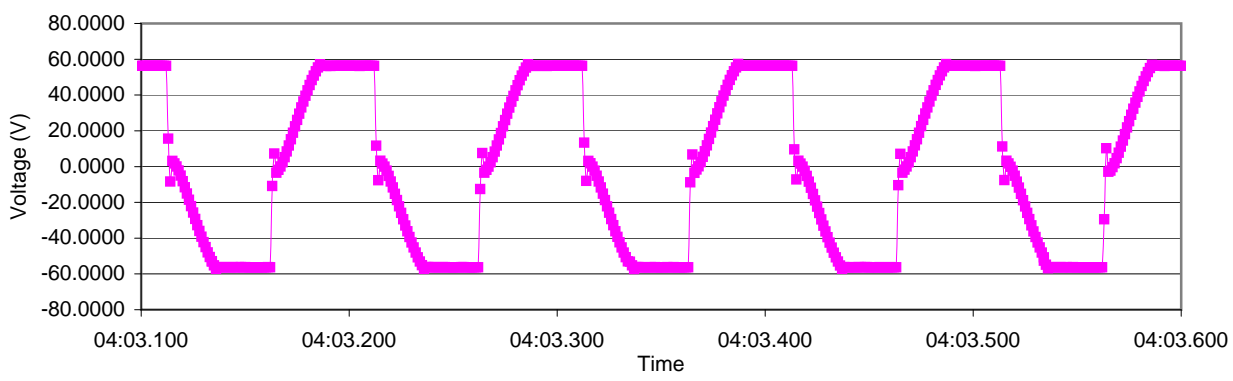
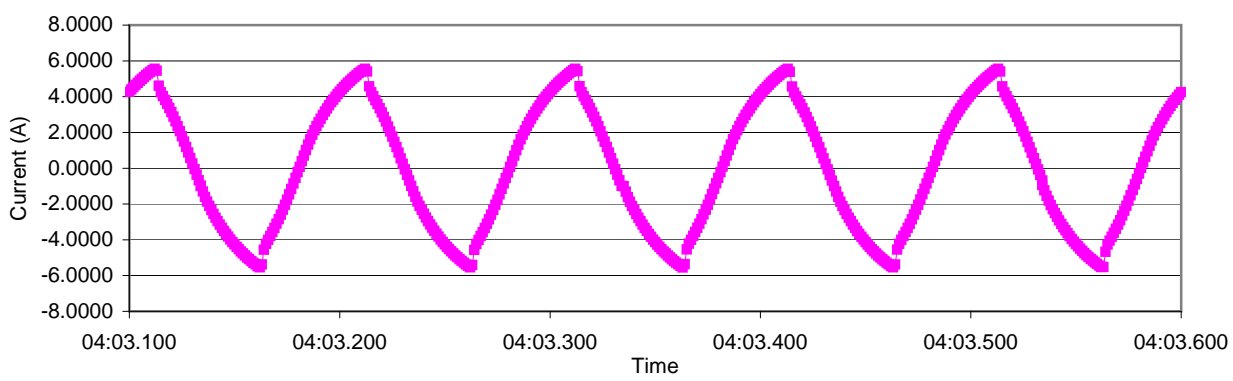
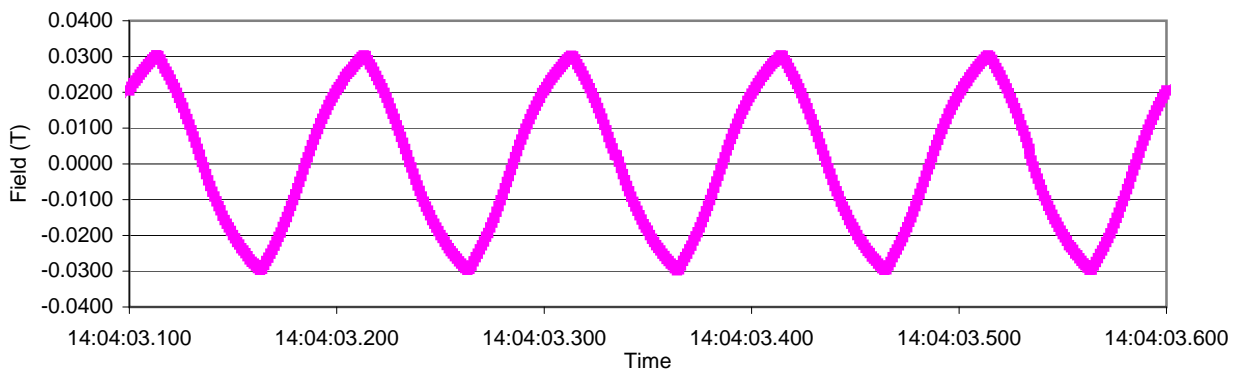
Contract No: 10813 Page: 1 of 9 Date: Sep 13,2011
Customer: Engr: Y.Qin

Model: 3470 Power Supply: Kepco 50-8 ML
Serial No: 380 PS Serial No: 160316
Pole: No pole
Field probe: Senis 3M12-2 SN:413 (in-house)
Note 1: Kepco with "L" option
Note 2: Current readback: DF860R with DAQPad
Note 3: Voltage readback: at magnet terminal with DAQPad
Note 4: Programming at Kepco front panel analog input with DAQPad
Note 5: Sinewave 5Hz, programmed to 5A peak.



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Electromagnet Waveform Plot

Contract No: 10813	Page: 2 of 9	Date: Sep 13, 2011
Customer:		Engr: Y.Qin
Model: 3470	Power Supply: Kepco 50-8 ML	
Serial No: 380	PS Serial No: 160316	
Pole: No pole		
Field probe: Senis 3M12-2 SN:413 (in-house)		
Note 1: Kepco with "L" option		
Note 2: Current readback: DF860R with DAQPad		
Note 3: Voltage readback: at magnet terminal with DAQPad		
Note 4: Programming at Kepco front panel analog input with DAQPad		
Note 5: Sinewave 10Hz, programmed to 5A peak.		

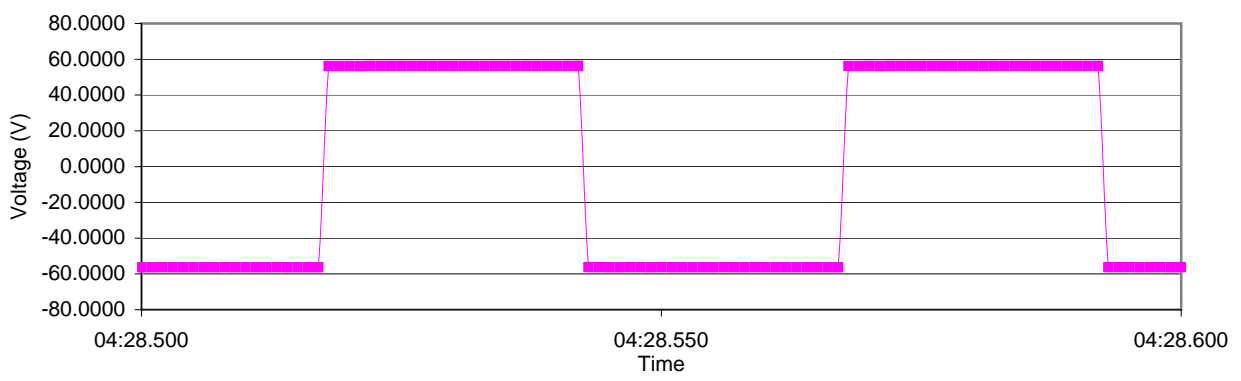
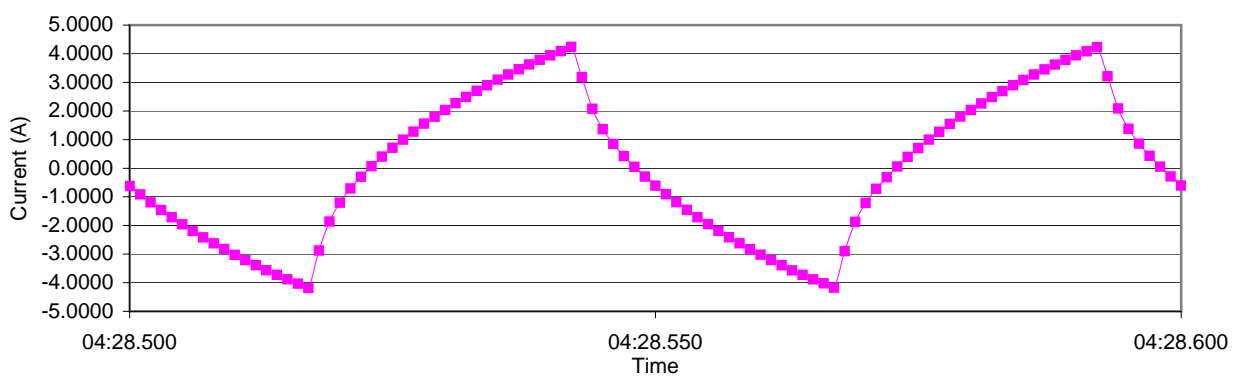
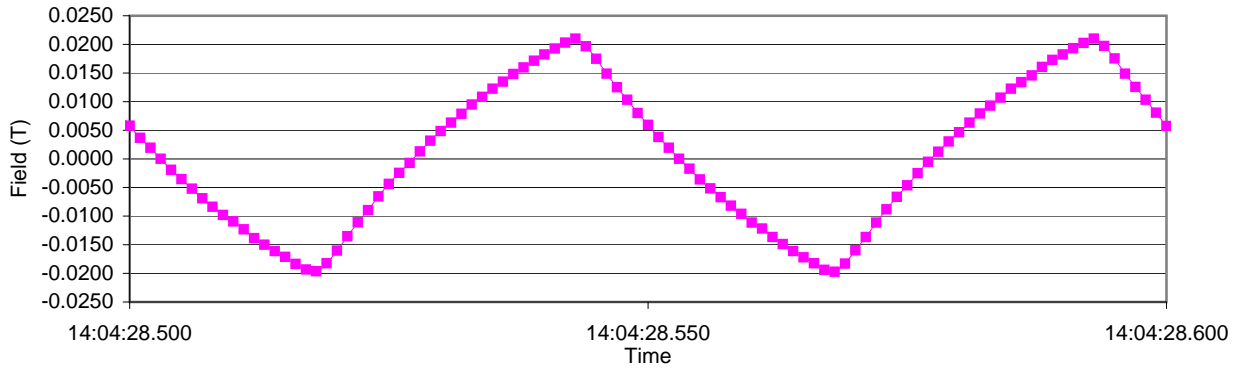


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Electromagnet Waveform Plot

Contract No: 10813 Page: 3 of 9 Date: Sep 13,2011
Customer: Engr: Y.Qin

Model: 3470 Power Supply: Kepco 50-8 ML
Serial No: 380 PS Serial No: 160316
Pole: No pole
Field probe: Senis 3M12-2 SN:413 (in-house)
Note 1: Kepco with "L" option
Note 2: Current readback: DF860R with DAQPad
Note 3: Voltage readback: at magnet terminal with DAQPad
Note 4: Programming at Kepco front panel analog input with DAQPad
Note 5: Sinewave 20Hz, programmed to 5A peak.

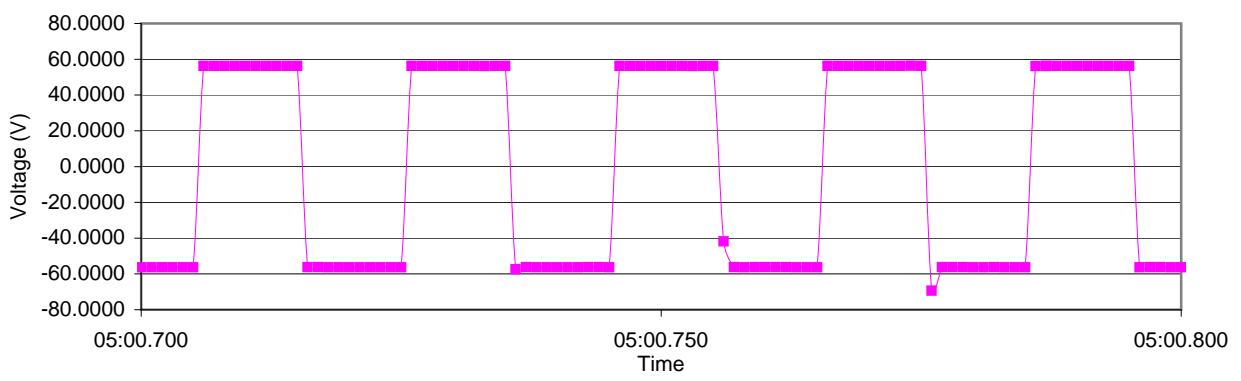
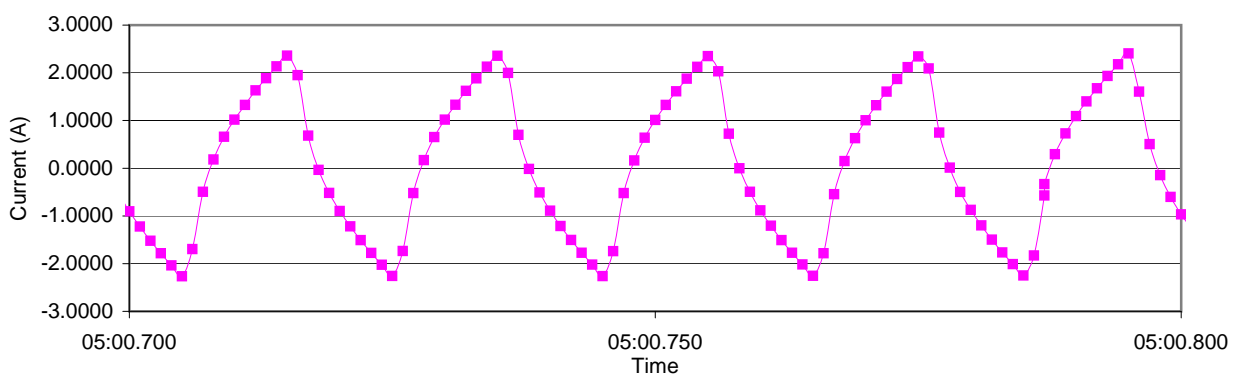
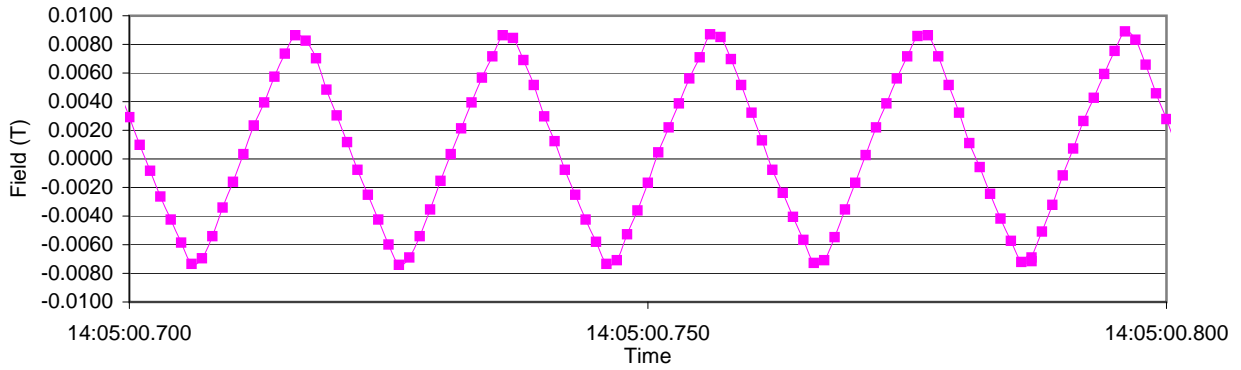


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Electromagnet Waveform Plot

Contract No: 10813 Page: 4 of 9 Date: Sep 13,2011
Customer: Engr: Y.Qin

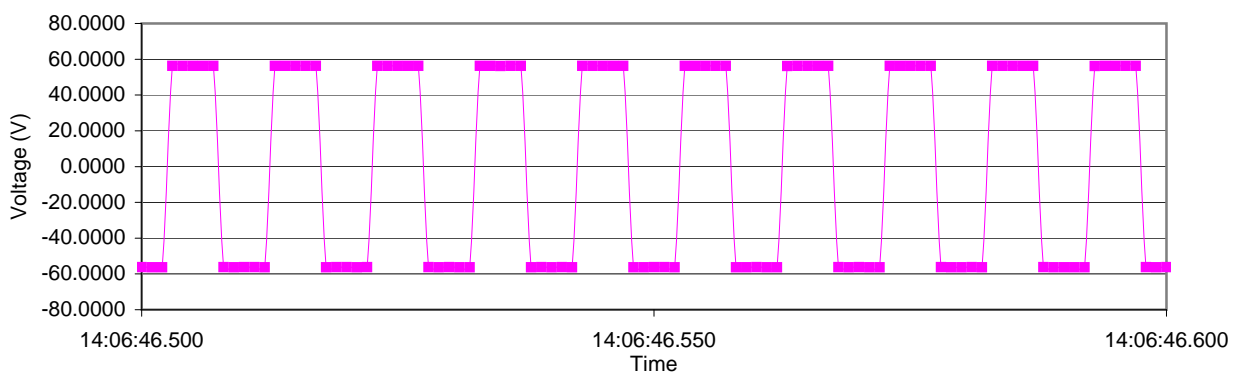
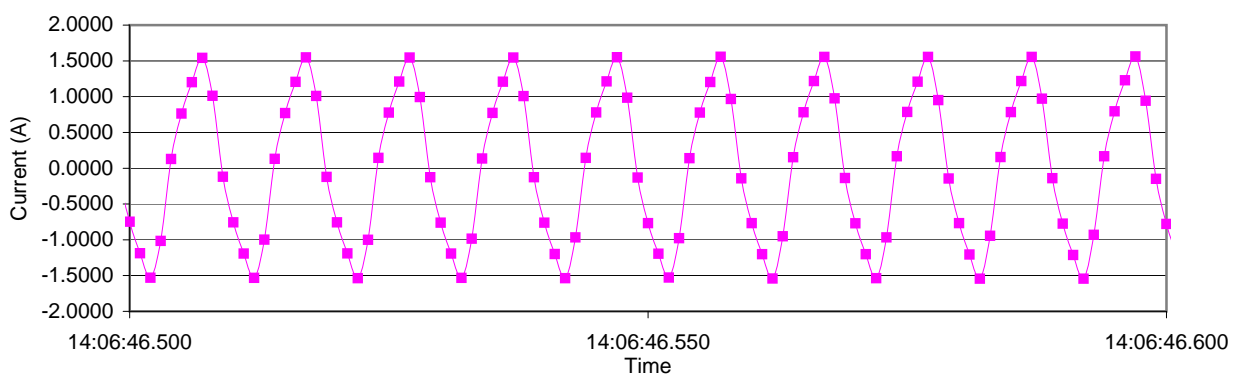
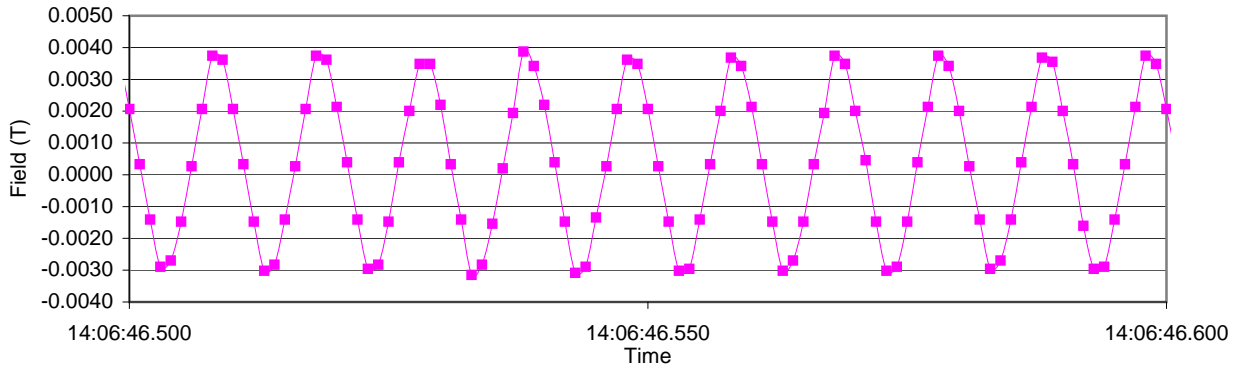
Model: 3470 Power Supply: Kepco 50-8 ML
Serial No: 380 PS Serial No: 160316
Pole: No pole
Field probe: Senis 3M12-2 SN:413 (in-house)
Note 1: Kepco with "L" option
Note 2: Current readback: DF860R with DAQPad
Note 3: Voltage readback: at magnet terminal with DAQPad
Note 4: Programming at Kepco front panel analog input with DAQPad
Note 5: Sinewave 50Hz, programmed to 5A peak.



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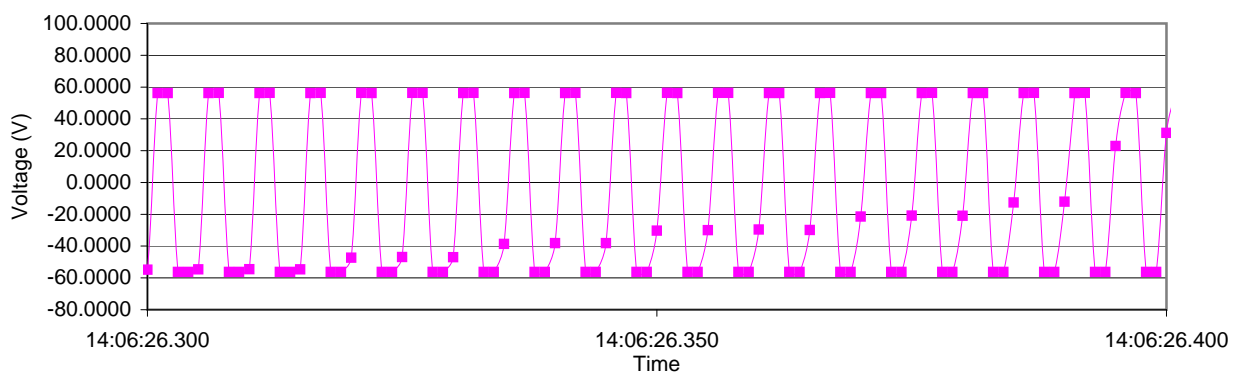
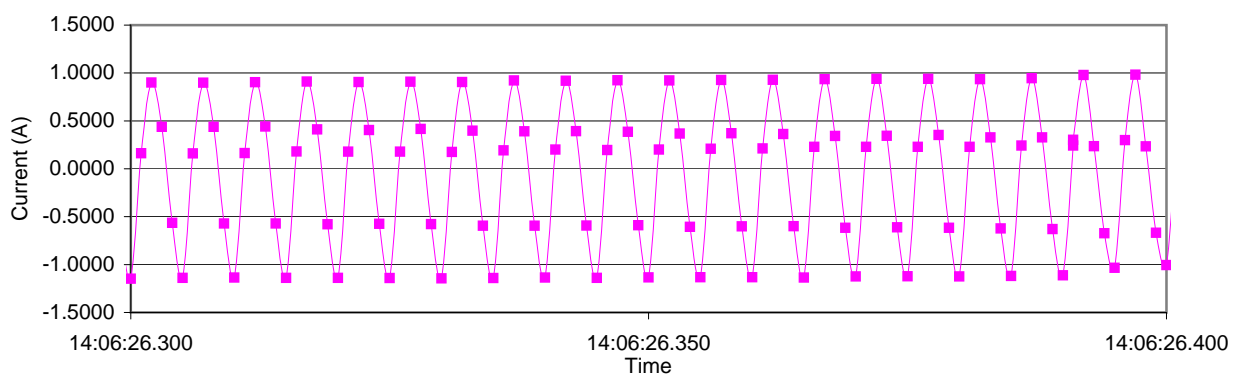
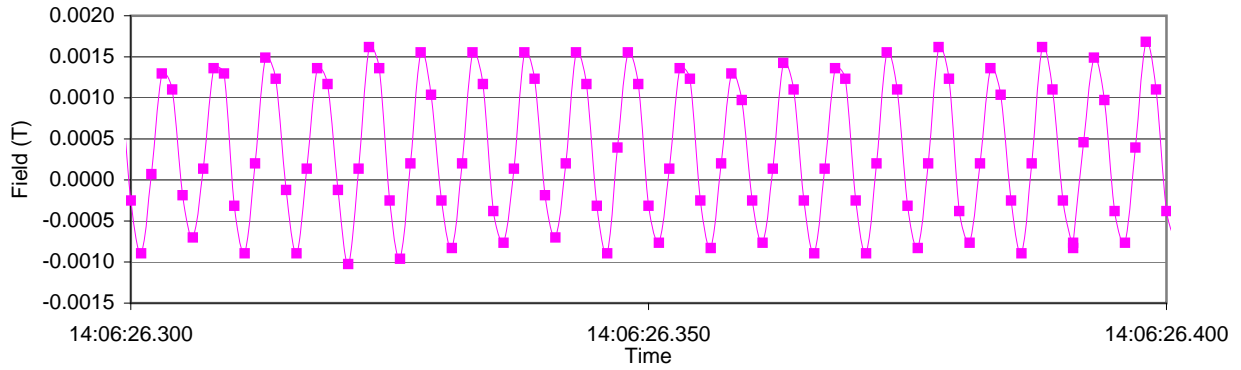
Electromagnet Waveform Plot

Contract No: 10813	Page: 5 of 9	Date: Sep 13, 2011
Customer:		Engr: Y.Qin
Model: 3470	Power Supply: Kepco 50-8 ML	
Serial No: 380	PS Serial No: 160316	
Pole: No pole		
Field probe: Senis 3M12-2 SN:413 (in-house)		
Note 1: Kepco with "L" option		
Note 2: Current readback: DF860R with DAQPad		
Note 3: Voltage readback: at magnet terminal with DAQPad		
Note 4: Programming at Kepco front panel analog input with DAQPad		
Note 5: Sinewave 100Hz, programmed to 5A peak.		



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Electromagnet Waveform Plot

Contract No: 10813	Page: 6 of 9	Date: Sep 13, 2011
Customer:		Engr: Y.Qin
Model: 3470	Power Supply: Kepco 50-8 ML	
Serial No: 380	PS Serial No: 160316	
Pole: No pole		
Field probe: Senis 3M12-2 SN:413 (in-house)		
Note 1: Kepco with "L" option		
Note 2: Current readback: DF860R with DAQPad		
Note 3: Voltage readback: at magnet terminal with DAQPad		
Note 4: Programming at Kepco front panel analog input with DAQPad		
Note 5: Sinewave 200Hz, programmed to 5A peak.		



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Electromagnet Frequency Response Plot

Contract No: 10813

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Date: Sep 13, 2011

Customer:

Engr: Y.Qin

Model: 3470

Power Supply: Kepco 50-8 ML

Serial No: 380

PS Serial No: 160316

Pole: No pole

Field probe: Senis 3M12-2 SN:413 (in-house)

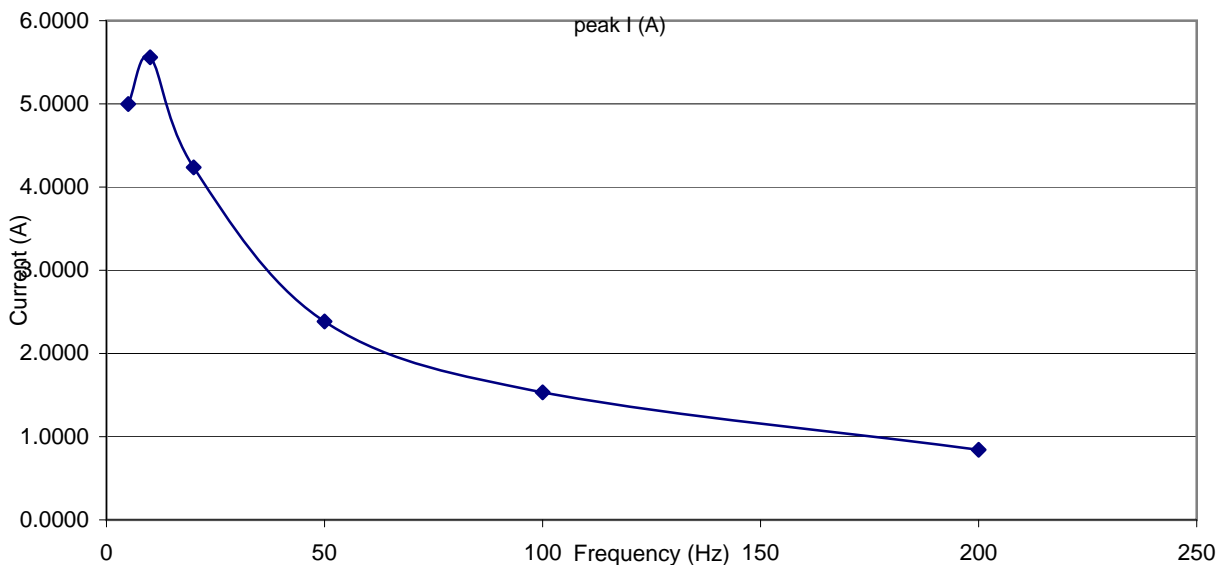
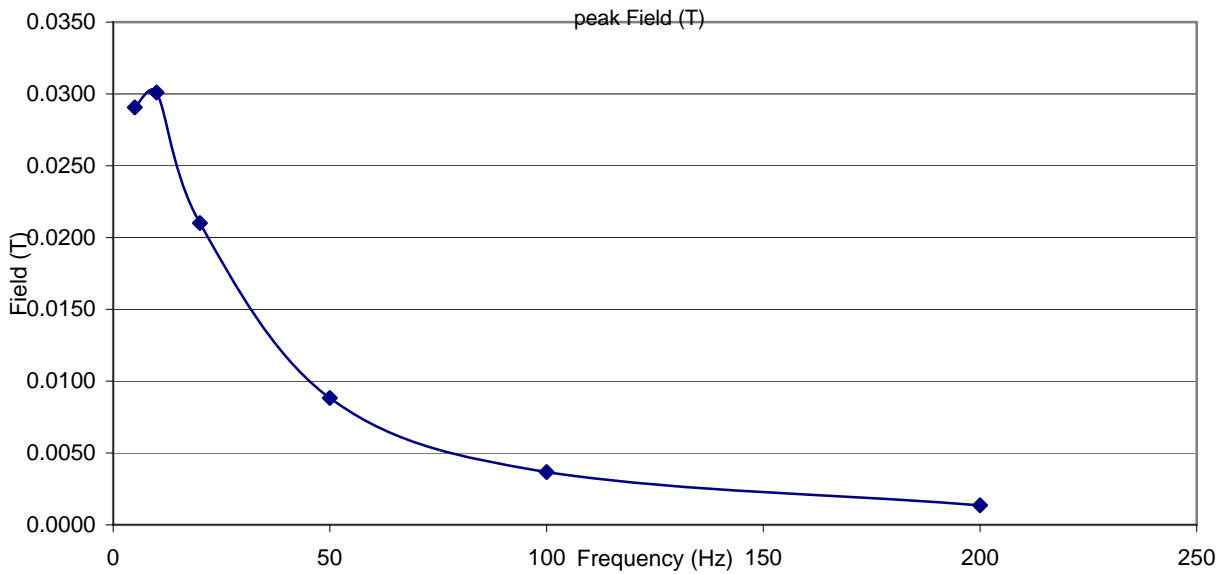
Note 1: Kepco with "L" option

Note 2: Current readback: DF860R with DAQPad

Note 3: Voltage readback: at magnet terminal with DAQPad

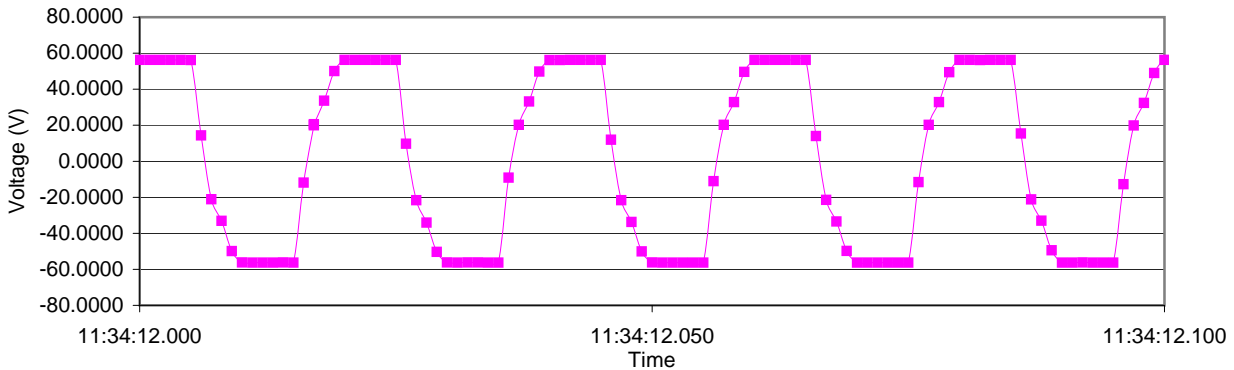
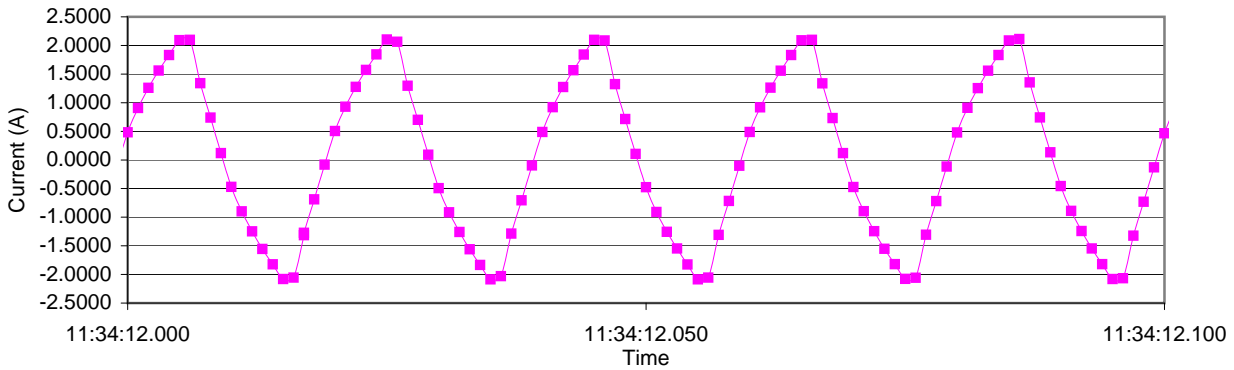
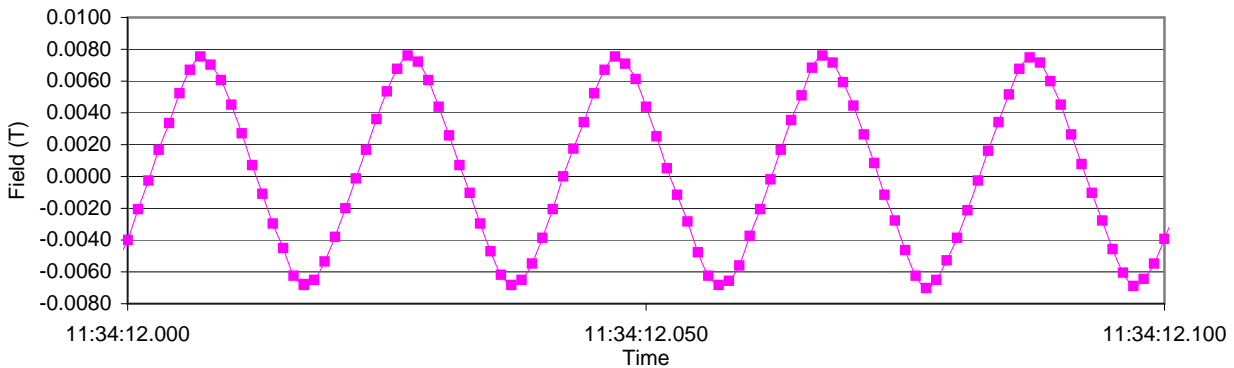
Note 4: Programming at Kepco front panel analog input with DAQPad

Note 5: Data taken from sine waveform, programmed to 5A peak.



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Electromagnet Waveform Plot

Contract No: 10813	Page: 8 of 9	Date: Sep 14, 2011
Customer:		Engr: Y.Qin
Model: 3470	Power Supply: Kepeco 50-8 ML	
Serial No: 380	PS Serial No: 160316	
Field probe: Senis 3M12-2 SN:413 (in-house)		
Note 1: Kepeco with "L" option		
Note 2: Current readback: DF860R with DAQPad		
Note 3: Voltage readback: at magnet terminal with DAQPad		
Note 4: Programming at Kepeco front panel analog input with DAQPad		
Note 4: Sinewave 50Hz, programmed to 2A peak.		



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Electromagnet Waveform Plot

Contract No: 10813	Page: 9 of 9	Date: Sep 14, 2011
Customer:		Engr: Y.Qin
Model: 3470	Power Supply: Kepco 50-8 ML	
Serial No: 380	PS Serial No: 160316	
Field probe: Senis 3M12-2 SN:413 (in-house)		
Note 1: Kepco with "L" option		
Note 2: Current readback: DF860R with DAQPad		
Note 3: Voltage readback: at magnet terminal with DAQPad		
Note 4: Programming at Kepco front panel analog input with DAQPad		
Note 4: Sinewave 100Hz, programmed to 1A peak.		

