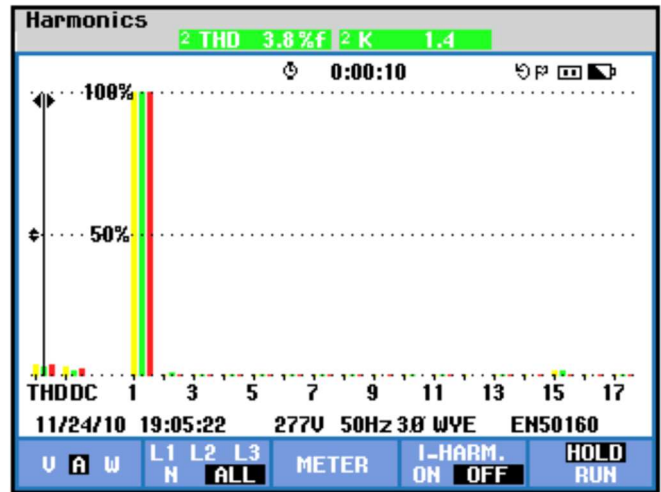
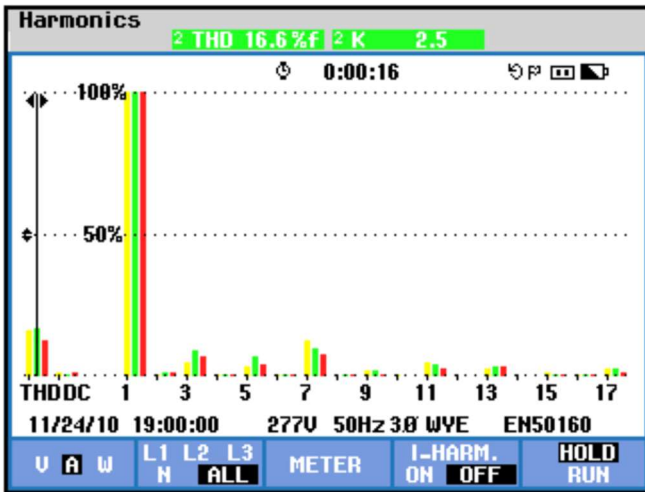


# China Unicom: UPS

Before Compensation

After Compensation



谐波表格

谐波表格

3s 0:00:16

Amp	L1	L2	L3	N
THD%f	15.8	16.6	12.6	163.5
H3%f	4.9	9.1	7.3	113.2
H5%f	3.3	6.8	4.0	13.1
H7%f	12.8	10.0	7.6	8.8
H9%f	2.2	1.8	0.5	6.6
H11%f	5.0	4.3	3.1	5.2
H13%f	2.8	3.6	3.7	4.1
H15%f	1.5	1.0	0.5	4.4

11/24/10 19:00:00 277V 50Hz 3Ø WYE ENS0160

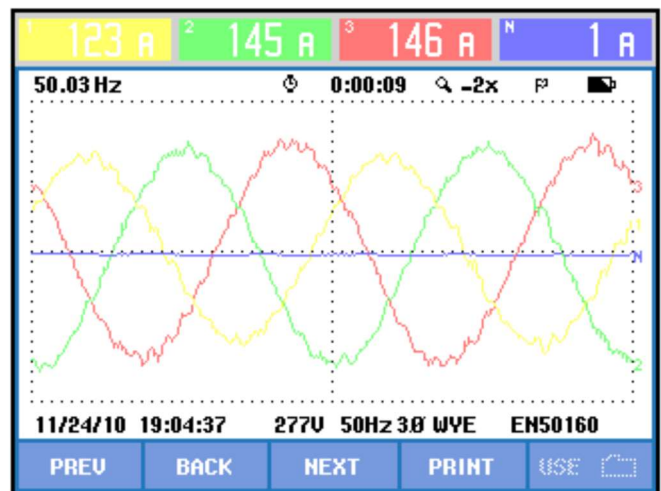
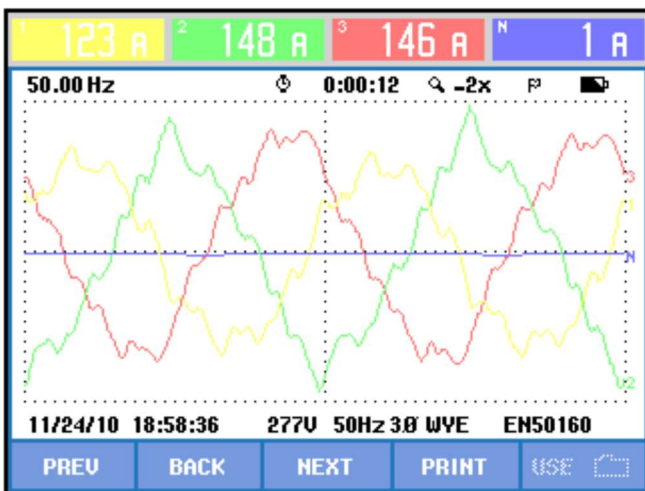
U A W V&A HARMONIC GRAPH TREND HOLD RUN

3s 0:00:03

Amp	L1	L2	L3	N
THD%f	4.3	3.2	3.8	152.5
H3%f	0.8	0.7	0.9	106.8
H5%f	0.5	0.6	0.5	11.5
H7%f	0.6	0.6	0.5	7.5
H9%f	0.4	0.4	0.4	6.2
H11%f	0.8	0.7	0.6	4.9
H13%f	0.5	0.6	0.5	3.8
H15%f	2.4	1.7	0.7	4.1

11/24/10 19:07:00 277V 50Hz 3Ø WYE ENS0160

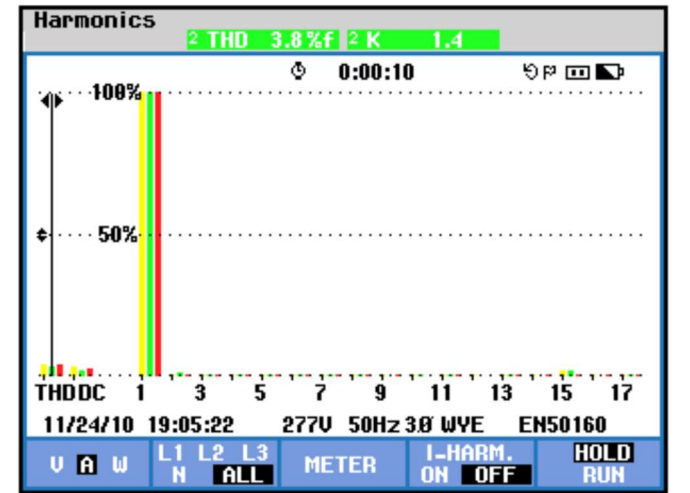
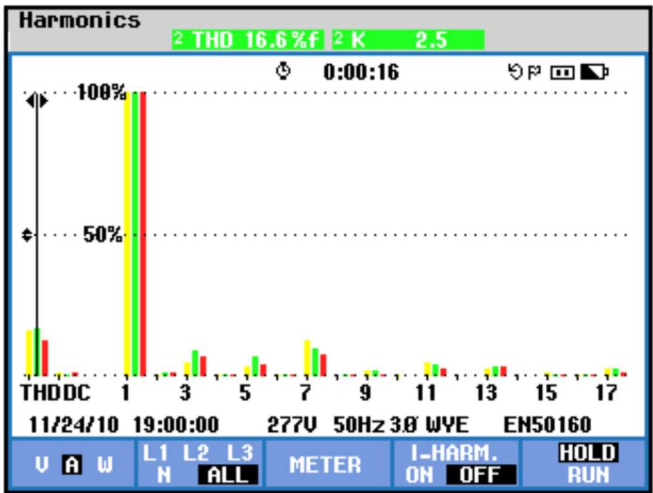
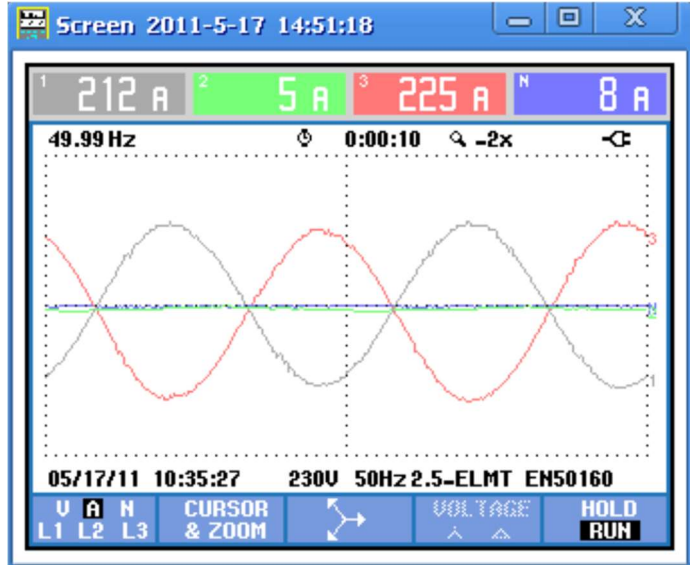
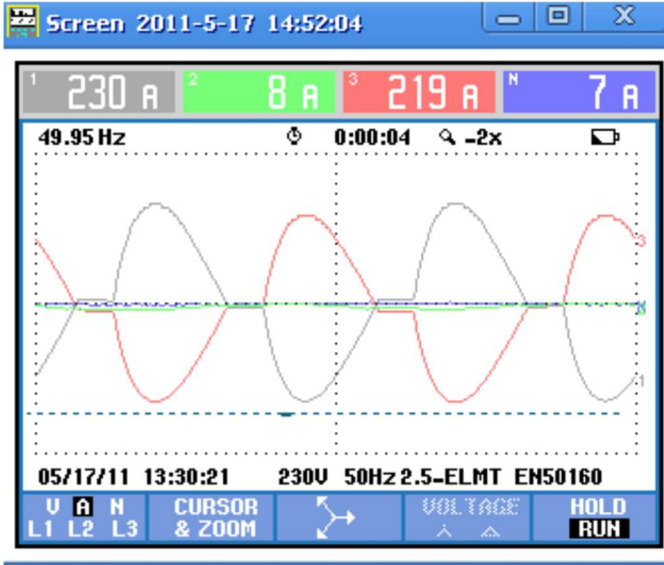
U A W V&A HARMONIC GRAPH TREND HOLD RUN



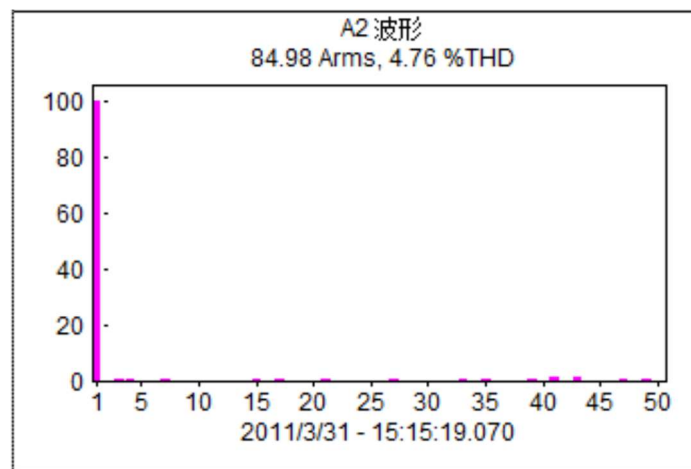
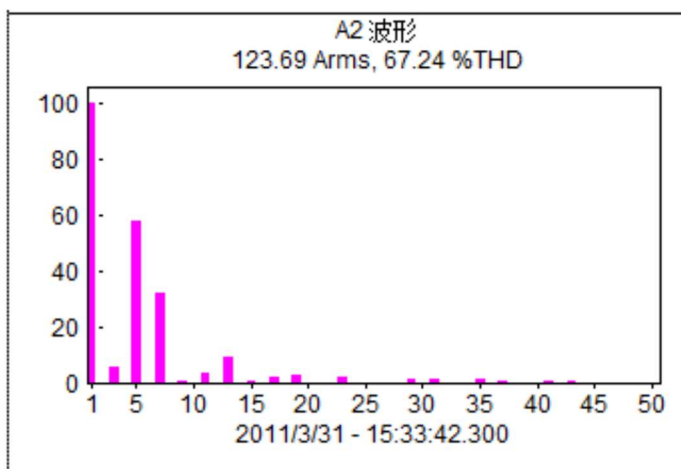
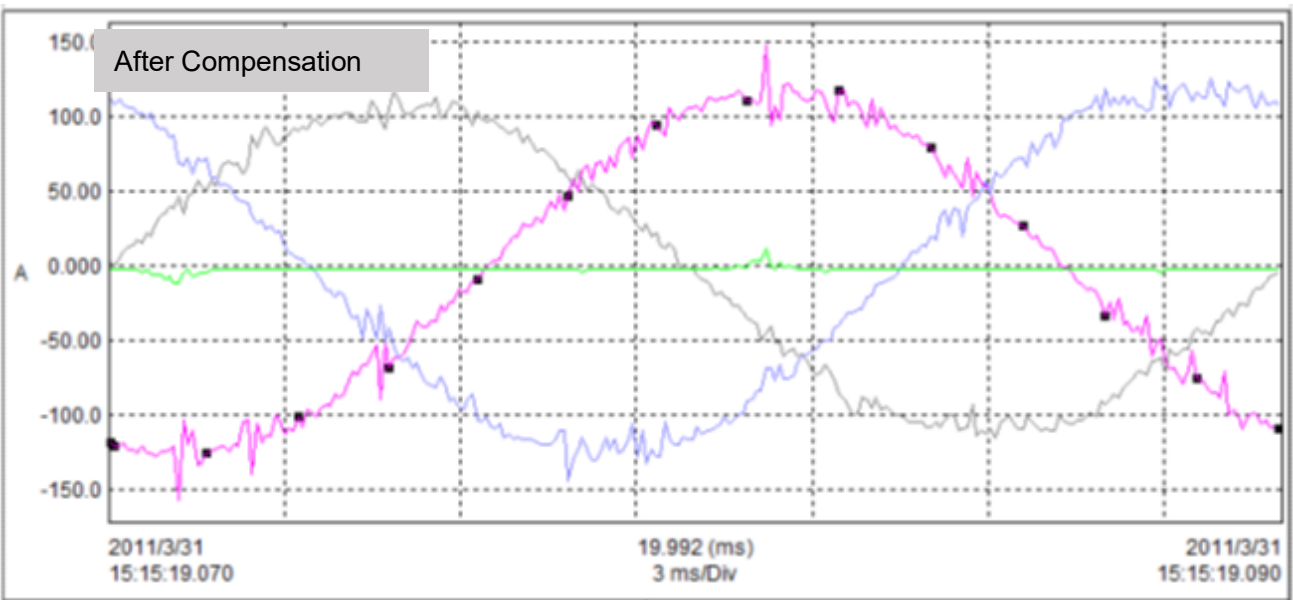
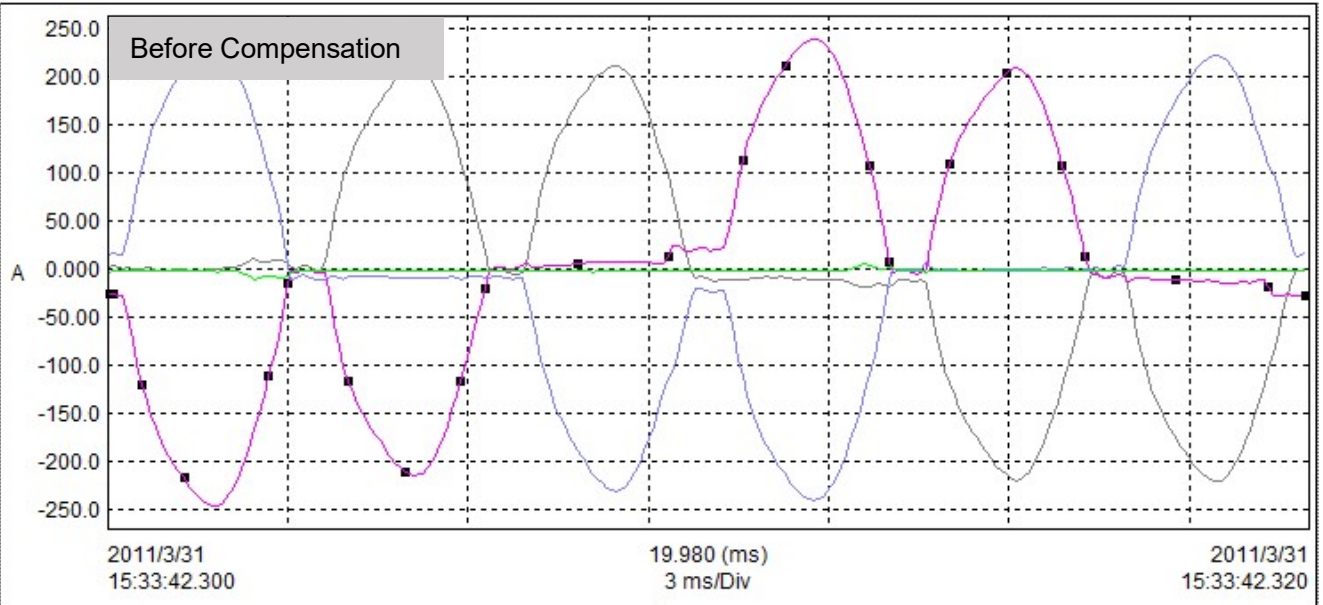
# China Unicom: UPS

Before Compensation

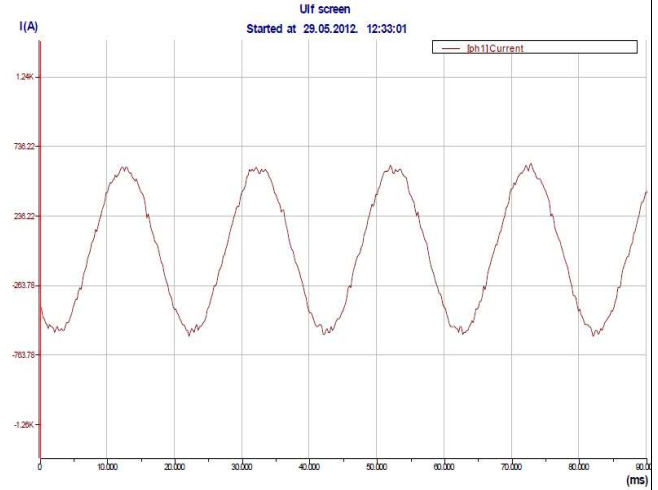
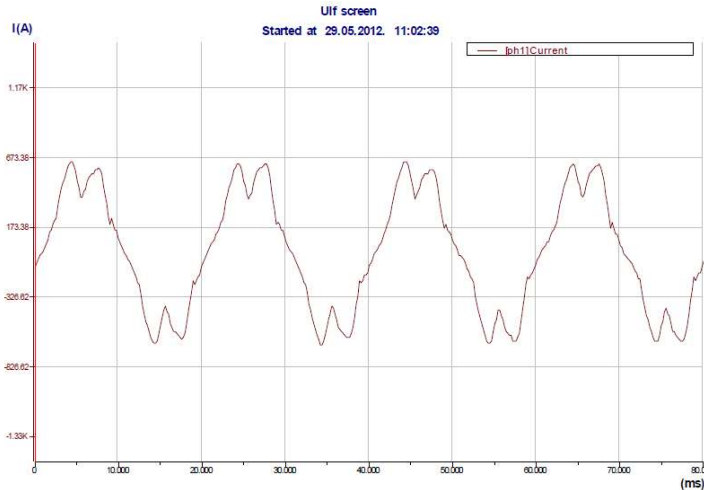
After Compensation



# OCT East: Flywheel motor



# Yingli New Energy: Non-linear Load



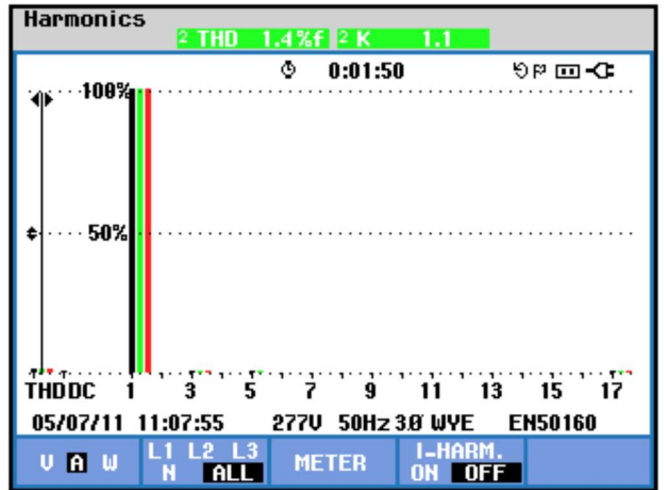
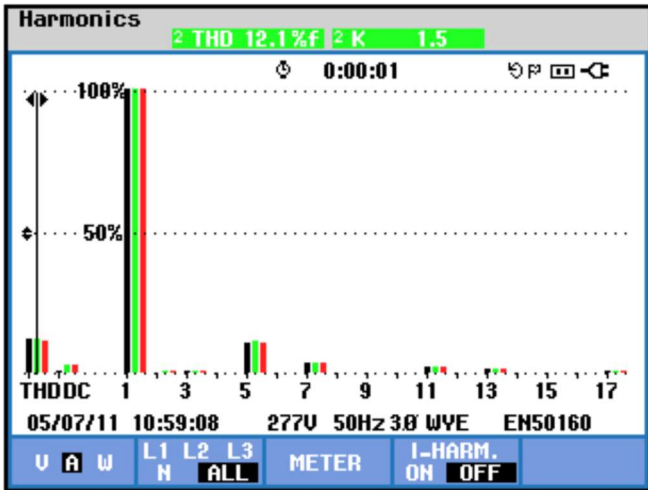
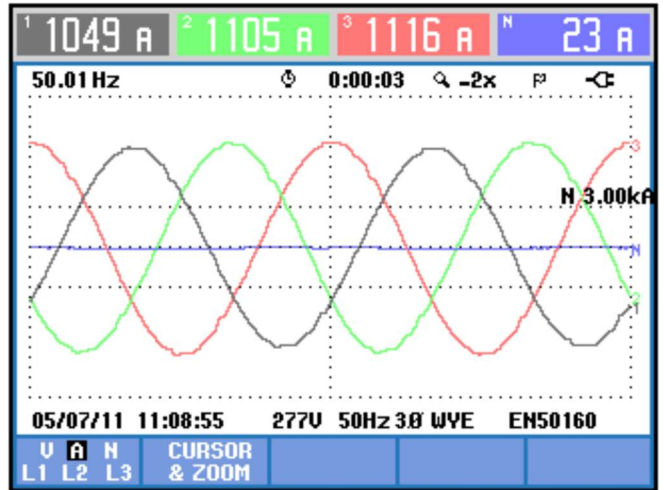
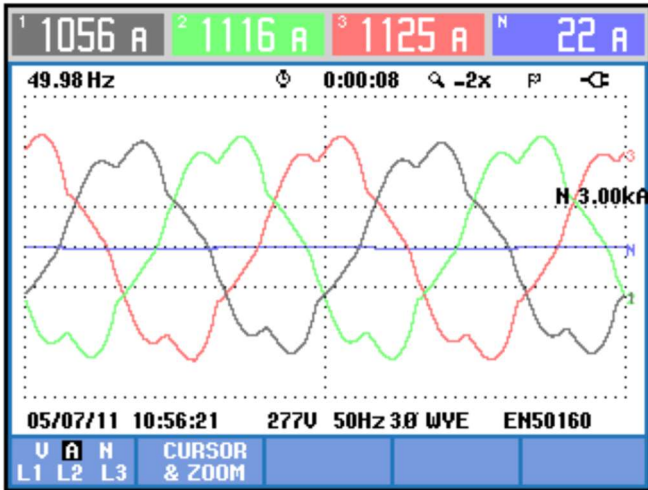
Symbol	Name	Unit	L1	L2	L3	Total
U	Phase voltage	V	229.9	228.7	229.3	
I	Phase current	A	422.247	425.467	425.085	
S	Apparent power	MVA	0.097	0.097	0.097	0.292
P	Active power	MW	0.093	0.093	0.094	0.280
Q	Reactive power	MVA <sub>r</sub>	0.026	0.028	0.027	0.081
PF	PF		0.96	0.95	0.96	0.96
cosPhi	cosinus Phi		0.98	0.98	0.98	
THD U	Total harmonic distortion	%	1.5	1.6	1.5	
THD I	Total harmonic distortion	%	19.5	19.8	19.5	
	Inductive, Capacitive		i	i	i	i
Uxx	Phase to phase voltage	V	(U12) 395.5	(U23) 395.6	(U13) 400.4	
THD Uxx	Phase to phase voltage - THD	%				
Inull		A	Before Compensation			24.882
Freq						50.00

Symbol	Name	Unit	L1	L2	L3	Total
U	Phase voltage	V	231.7	230.9	228.6	
I	Phase current	A	416.163	420.559	380.362	
S	Apparent power	MVA	0.096	0.097	0.087	0.280
P	Active power	MW	0.095	0.093	0.084	0.273
Q	Reactive power	MVA <sub>r</sub>	0.016	0.027	0.021	0.064
PF	PF		0.98	0.95	0.97	0.97
cosPhi	cosinus Phi		0.99	0.96	0.97	
THD U	Total harmonic distortion	%	1.0	1.1	1.0	
THD I	Total harmonic distortion	%	3.0	3.2	3.6	
	Inductive, Capacitive		i	i	i	i
Uxx	Phase to phase voltage	V	(U12) 400.3	(U23) 396.3	(U13) 400.5	
THD Uxx	Phase to phase voltage - THD	%				
Inull		A	After Compensation			20.589
Freq						49.99

# Nanhai Green Electric

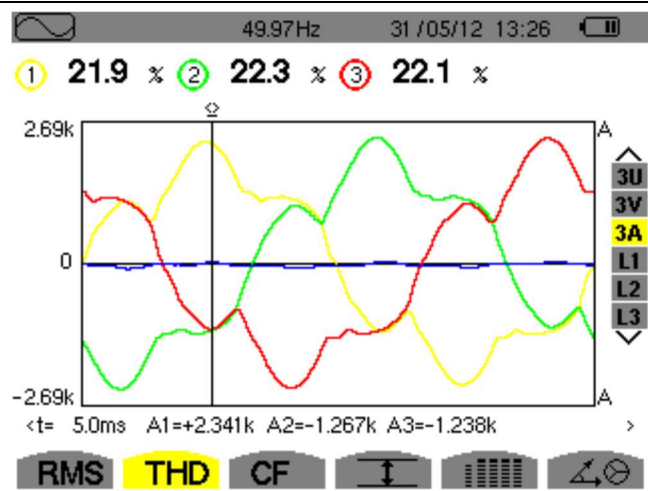
Before Compensation

After Compensation

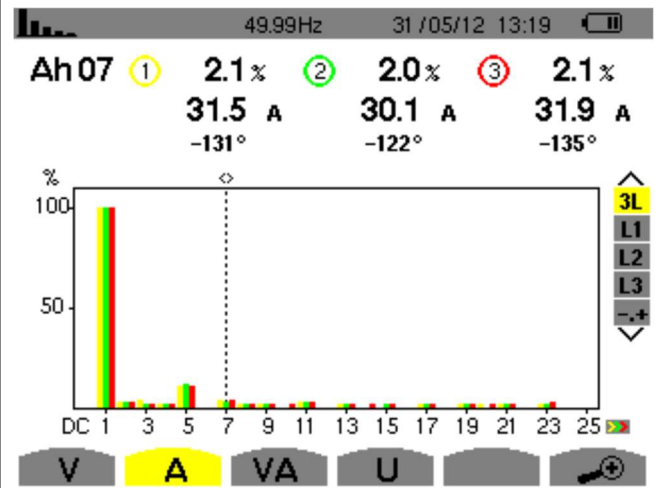
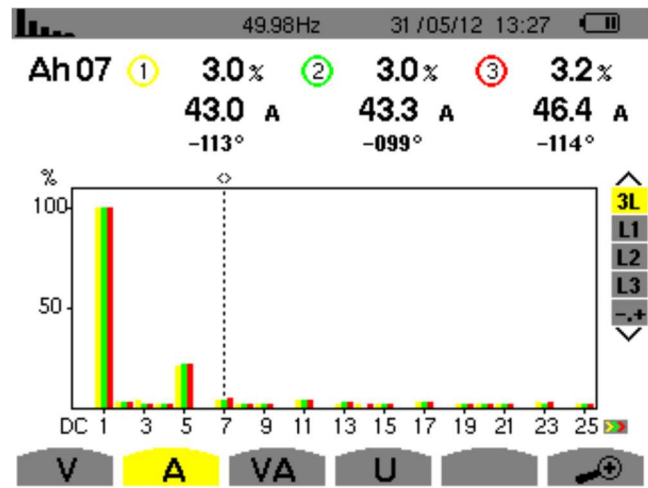
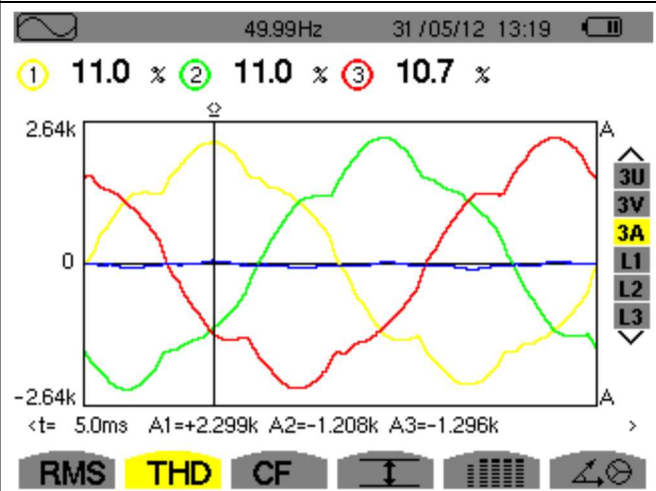


# Wolong Electric: Charge and discharge motor

Before Compensation



After Compensation

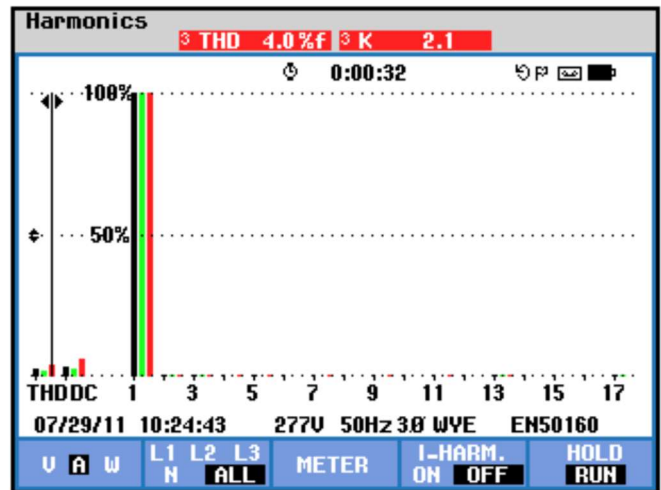
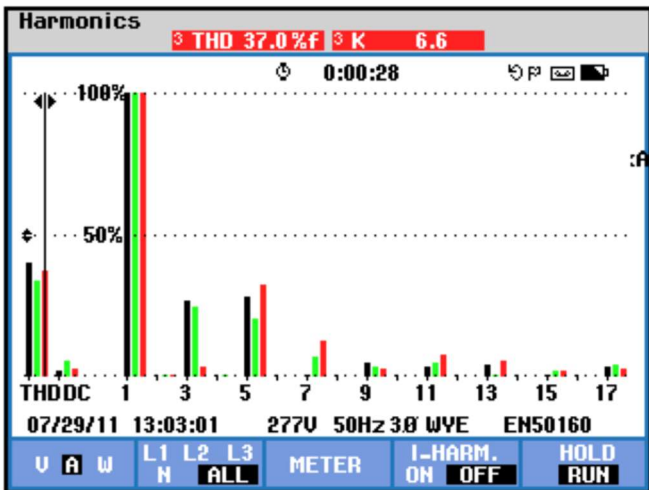
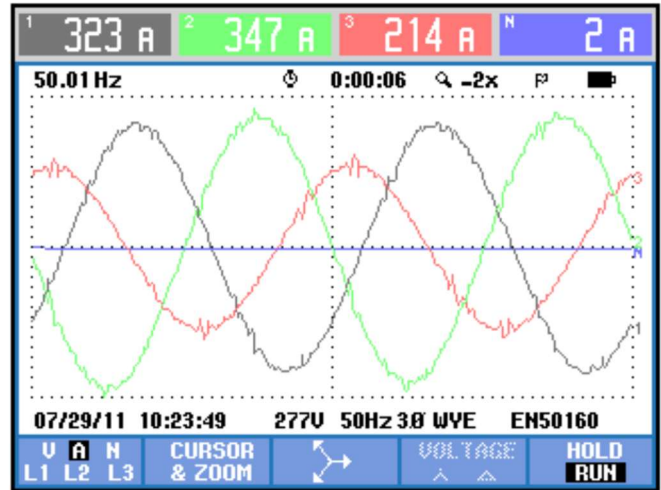
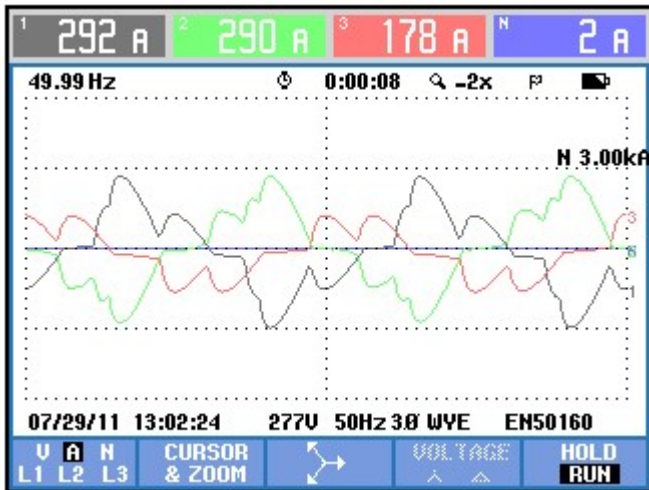


The total harmonic current is 342A, but only 200A AHF is installed. There is some harmonic current not to be compensated.

# Silian Photoelectric: Furnace

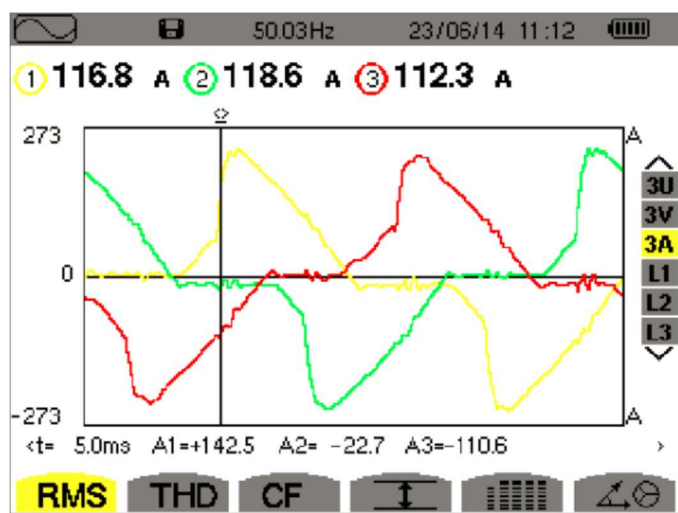
Before Compensation

After Compensation



# Theatre and Art Center:

Before Compensation



After Compensation

