

Enstitüler Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	378,35 [V]	2,90	8,00	1,05	0,20	1,18	1,31	0,43	0,50
Current	68,04 [A]	17,68	8,00	13,89	5,27	7,10	5,70	2,31	2,55

Harmonic Judgement Criteria

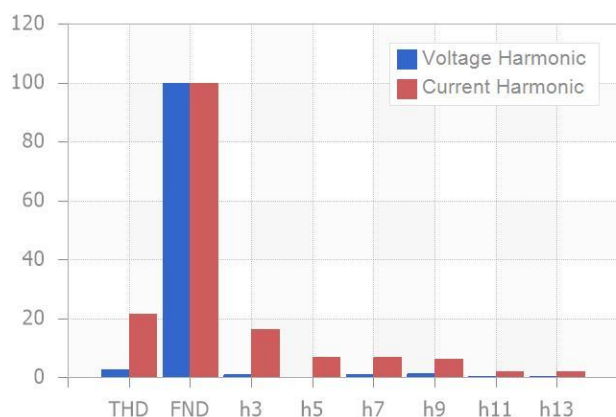
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

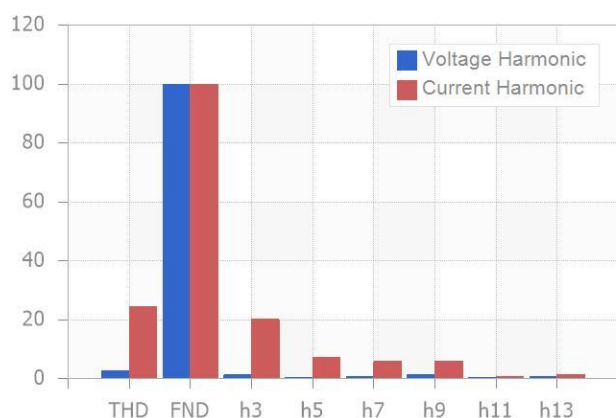
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



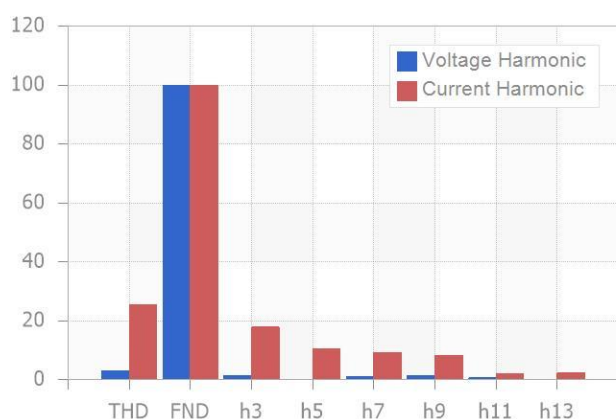
Item	Voltage [%]	Current [%]
THD	2,71	21,57
FND	100,00	100,00
h3	0,98	16,40
h5	0,09	6,82
h7	1,05	6,84
h9	1,22	6,27
h11	0,44	2,01
h13	0,46	2,16

S phase harmonics



Item	Voltage [%]	Current [%]
THD	2,83	24,35
FND	100,00	100,00
h3	1,28	20,17
h5	0,47	7,19
h7	0,71	5,84
h9	1,44	5,93
h11	0,56	0,71
h13	0,59	1,41

T phase harmonics



Item	Voltage [%]	Current [%]
THD	3,06	25,46
FND	100,00	100,00
h3	1,41	17,80
h5	0,19	10,50
h7	1,21	9,29
h9	1,47	8,30
h11	0,58	2,11
h13	0,09	2,21

TR5-2 Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	400,45 [V]	1,57	8,00	0,10	0,54	1,29	0,27	0,61	0,21
Current	355,97 [A]	9,90	8,00	4,20	0,96	6,88	2,52	5,12	0,91

Harmonic Judgement Criteria

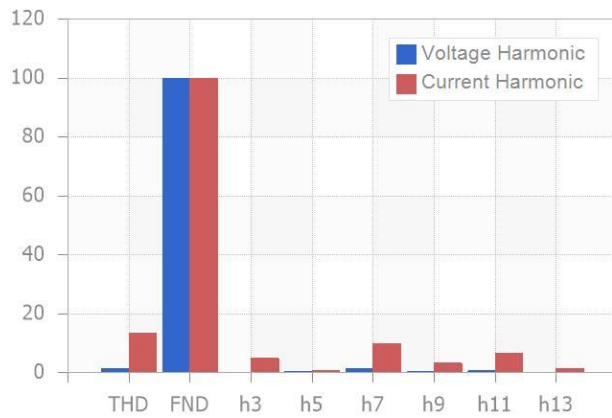
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

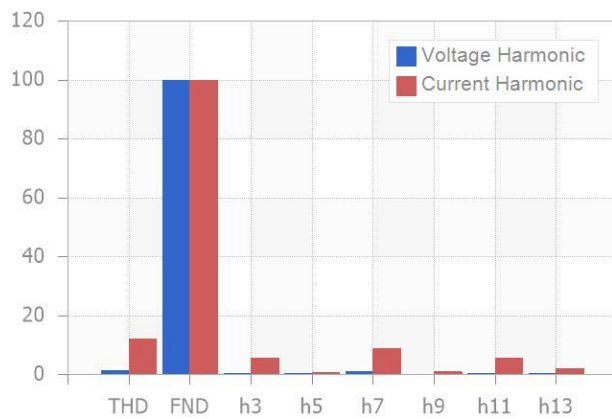
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



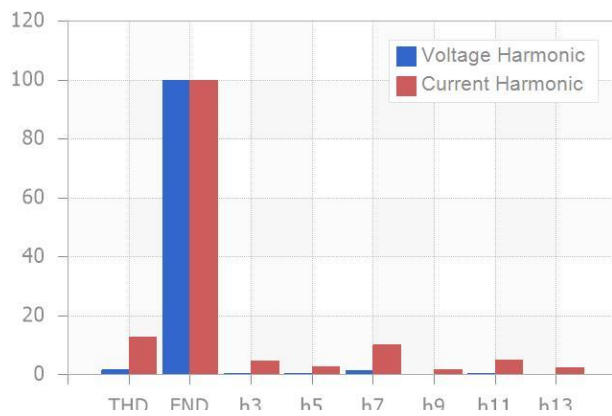
Item	Voltage [%]	Current [%]
THD	1,51	13,37
FND	100,00	100,00
h3	0,13	4,89
h5	0,49	0,87
h7	1,25	9,81
h9	0,27	3,21
h11	0,57	6,67
h13	0,21	1,47

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,42	12,13
FND	100,00	100,00
h3	0,31	5,61
h5	0,49	0,88
h7	1,16	8,81
h9	0,06	0,93
h11	0,48	5,52
h13	0,26	2,11

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,54	12,88
FND	100,00	100,00
h3	0,27	4,77
h5	0,55	2,53
h7	1,31	10,02
h9	0,17	1,86
h11	0,42	5,07
h13	0,23	2,50

TR5-1 Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	395,02 [V]	1,87	8,00	1,28	0,51	1,26	0,11	0,07	0,02
Current	1014,23 [A]	5,73	8,00	4,51	0,97	3,41	0,29	0,43	0,29

Harmonic Judgement Criteria

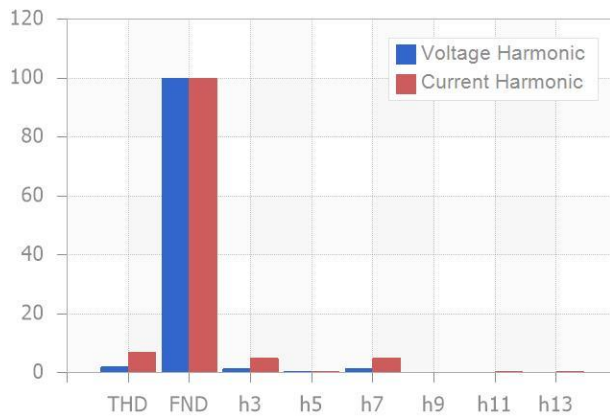
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV $< U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV $< U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV $< U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

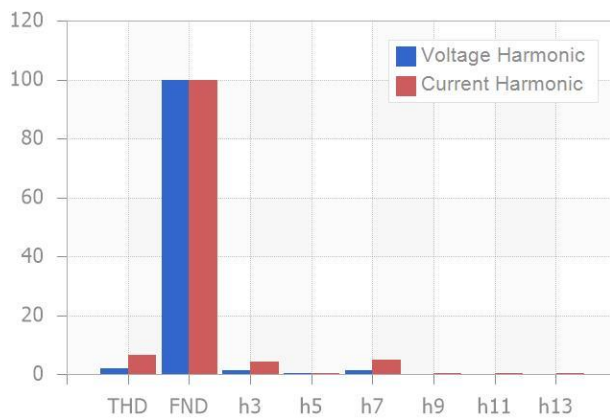
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



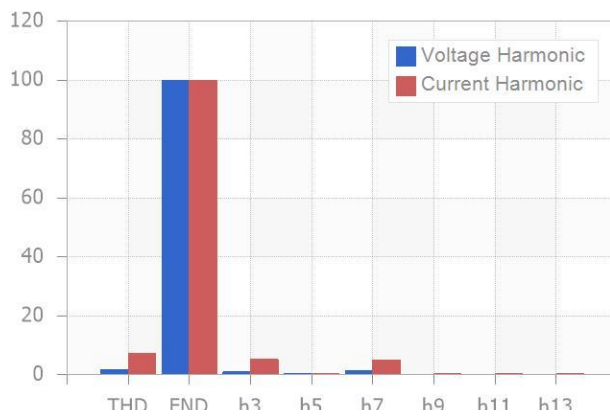
Item	Voltage [%]	Current [%]
THD	1,88	6,90
FND	100,00	100,00
h3	1,27	4,84
h5	0,48	0,33
h7	1,28	4,87
h9	0,11	0,20
h11	0,07	0,34
h13	0,02	0,32

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,93	6,66
FND	100,00	100,00
h3	1,40	4,36
h5	0,36	0,37
h7	1,26	4,96
h9	0,11	0,33
h11	0,11	0,40
h13	0,05	0,38

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,85	7,28
FND	100,00	100,00
h3	1,00	5,20
h5	0,54	0,56
h7	1,45	5,00
h9	0,16	0,31
h11	0,06	0,31
h13	0,03	0,37

TR4 Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	396,47 [V]	1,80	8,00	0,15	0,80	1,42	0,19	0,19	0,30
Current	382,62 [A]	10,07	8,00	2,73	7,81	6,06	0,99	1,78	1,04

Harmonic Judgement Criteria

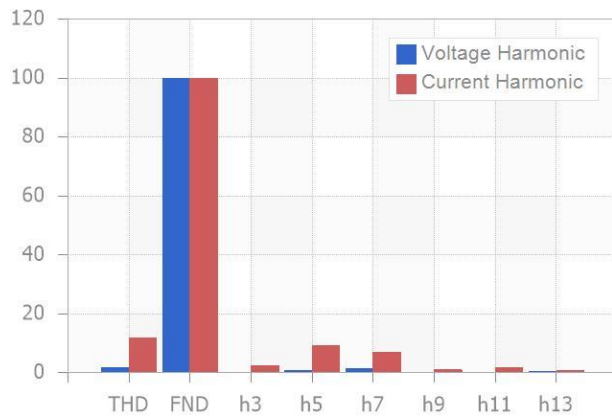
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

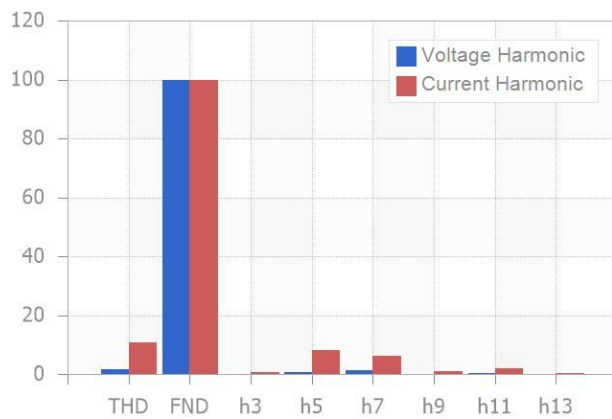
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



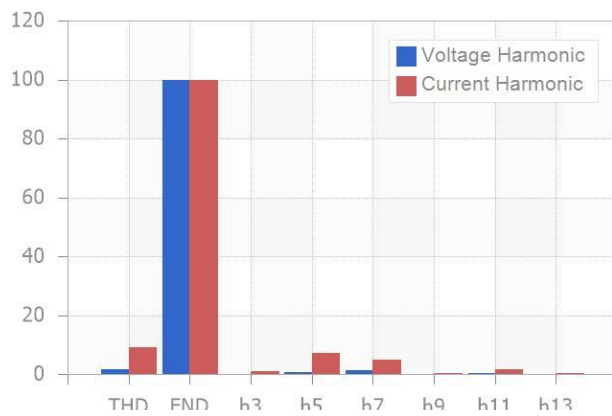
Item	Voltage [%]	Current [%]
THD	1,80	11,93
FND	100,00	100,00
h3	0,16	2,38
h5	0,80	9,02
h7	1,42	6,88
h9	0,19	0,94
h11	0,20	1,57
h13	0,30	0,72

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,69	10,86
FND	100,00	100,00
h3	0,23	0,88
h5	0,75	8,25
h7	1,34	6,33
h9	0,18	1,07
h11	0,25	1,92
h13	0,20	0,41

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,59	9,30
FND	100,00	100,00
h3	0,08	1,13
h5	0,72	7,27
h7	1,26	5,01
h9	0,12	0,48
h11	0,25	1,84
h13	0,21	0,43

TR2 Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	398,35 [V]	0,88	8,00	0,06	0,51	0,69	0,09	0,05	0,12
Current	99,31 [A]	2,73	8,00	1,80	1,77	0,65	0,72	0,44	0,33

Harmonic Judgement Criteria

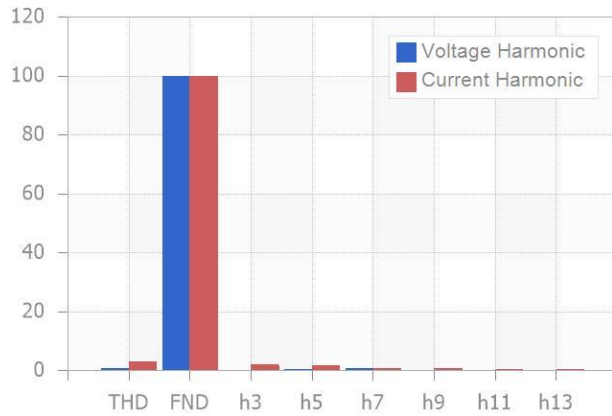
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

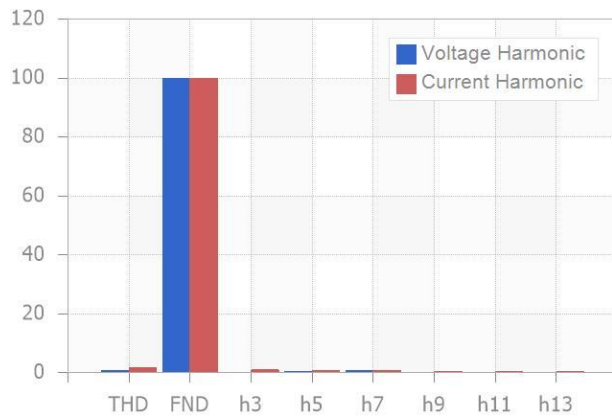
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



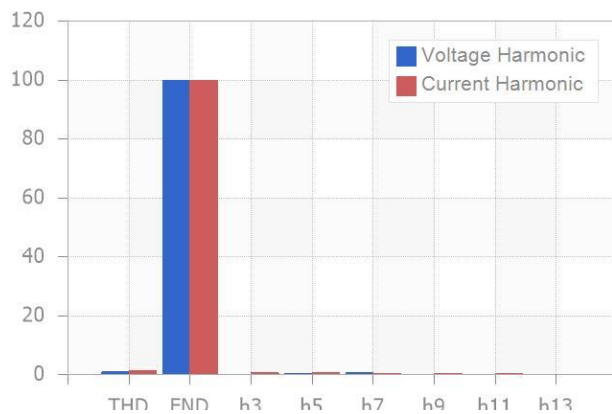
Item	Voltage [%]	Current [%]
THD	0,86	2,87
FND	100,00	100,00
h3	0,05	1,96
h5	0,47	1,74
h7	0,69	0,61
h9	0,10	0,75
h11	0,07	0,46
h13	0,11	0,32

S phase harmonics



Item	Voltage [%]	Current [%]
THD	0,86	1,65
FND	100,00	100,00
h3	0,21	0,90
h5	0,47	0,82
h7	0,65	0,72
h9	0,04	0,41
h11	0,08	0,51
h13	0,11	0,36

T phase harmonics



Item	Voltage [%]	Current [%]
THD	0,91	1,38
FND	100,00	100,00
h3	0,21	0,68
h5	0,46	0,88
h7	0,72	0,54
h9	0,05	0,40
h11	0,10	0,24
h13	0,15	0,17

TR1 Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	393,81 [V]	1,04	8,00	0,47	0,72	0,23	0,35	0,24	0,15
Current	1121,38 [A]	9,14	8,00	2,74	8,56	2,00	0,50	0,72	0,82

Harmonic Judgement Criteria

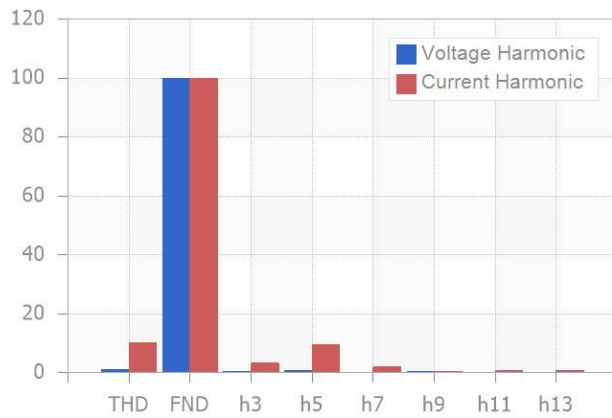
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

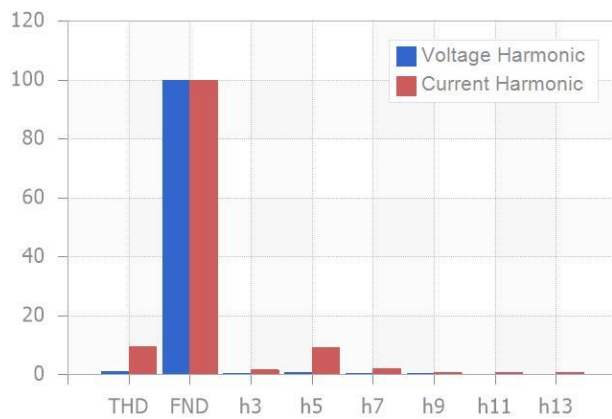
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



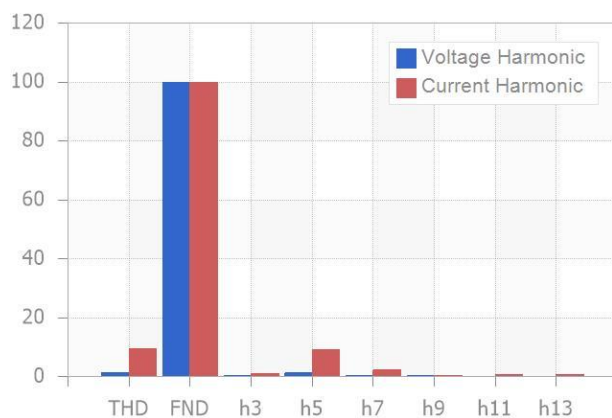
Item	Voltage [%]	Current [%]
THD	1,14	10,21
FND	100,00	100,00
h3	0,53	3,18
h5	0,84	9,43
h7	0,21	1,93
h9	0,37	0,55
h11	0,20	0,68
h13	0,14	0,75

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,19	9,51
FND	100,00	100,00
h3	0,48	1,61
h5	0,87	9,04
h7	0,38	2,03
h9	0,37	0,68
h11	0,19	0,68
h13	0,15	0,79

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,42	9,47
FND	100,00	100,00
h3	0,33	1,09
h5	1,22	9,06
h7	0,39	2,24
h9	0,31	0,43
h11	0,19	0,57
h13	0,19	0,77

İlahiyat Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	400,97 [V]	1,05	8,00	0,22	0,77	0,61	0,11	0,06	0,10
Current	105,17 [A]	33,52	8,00	5,37	28,28	20,86	3,35	5,58	1,27

Harmonic Judgement Criteria

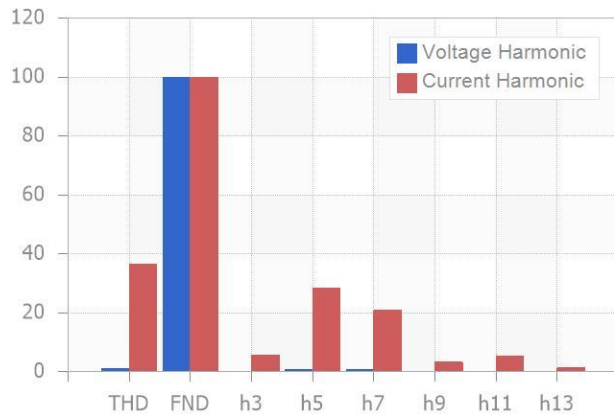
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

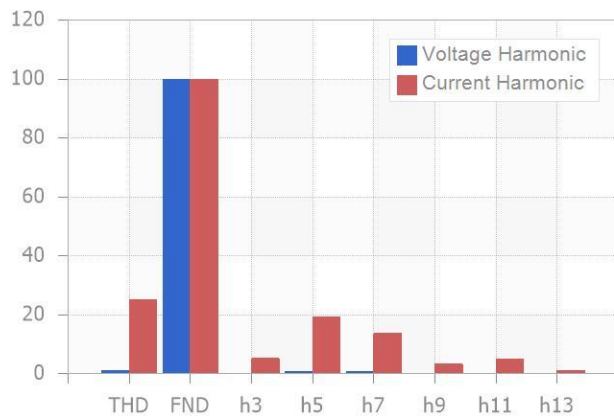
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



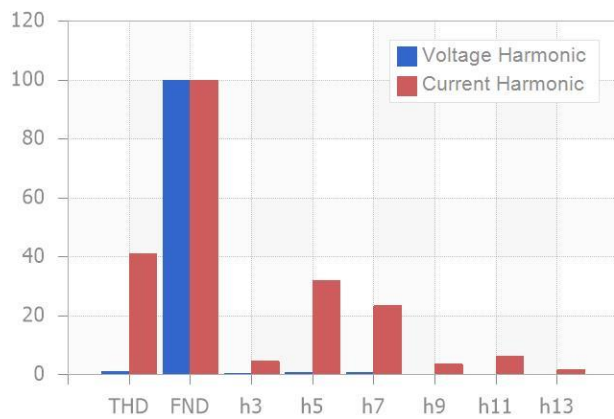
Item	Voltage	Current
THD	1,07	36,36
FND	100,00	100,00
h3	0,20	5,60
h5	0,77	28,21
h7	0,66	20,83
h9	0,10	3,28
h11	0,09	5,37
h13	0,17	1,30

S phase harmonics



Item	Voltage	Current
THD	1,04	25,14
FND	100,00	100,00
h3	0,10	5,12
h5	0,73	19,26
h7	0,66	13,65
h9	0,17	3,21
h11	0,09	4,91
h13	0,15	1,05

T phase harmonics



Item	Voltage	Current
THD	1,13	40,90
FND	100,00	100,00
h3	0,30	4,52
h5	0,78	32,05
h7	0,68	23,39
h9	0,16	3,55
h11	0,11	6,25
h13	0,20	1,64

Yemekhane Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	395,21 [V]	1,37	8,00	0,15	0,99	0,90	0,15	0,12	0,07
Current	229,30 [A]	1,49	8,00	0,67	1,20	0,75	0,07	0,04	0,09

Harmonic Judgement Criteria

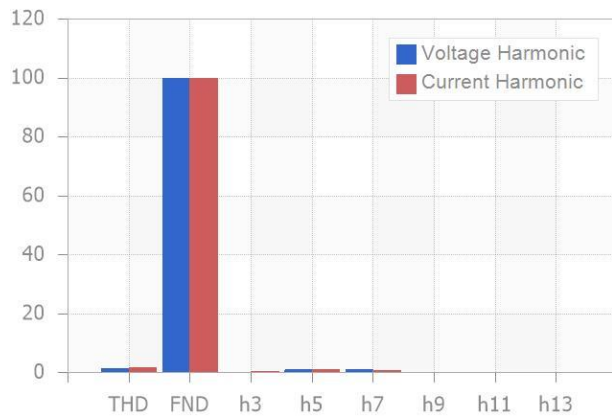
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

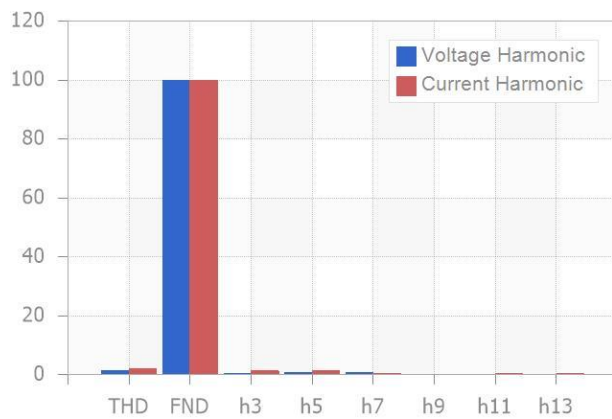
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



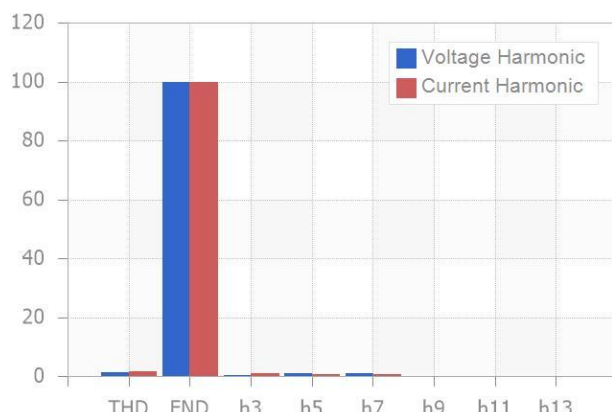
Item	Voltage [%]	Current [%]
THD	1,37	1,66
FND	100,00	100,00
h3	0,16	0,54
h5	0,91	1,19
h7	0,97	0,78
h9	0,14	0,06
h11	0,13	0,01
h13	0,08	0,13

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,30	2,09
FND	100,00	100,00
h3	0,37	1,29
h5	0,85	1,45
h7	0,86	0,46
h9	0,15	0,19
h11	0,16	0,25
h13	0,05	0,27

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,43	1,73
FND	100,00	100,00
h3	0,24	1,09
h5	0,94	0,88
h7	1,02	0,87
h9	0,11	0,12
h11	0,10	0,17
h13	0,15	0,18

Hukuk Fakültesi Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	399,91 [V]	1,52	8,00	0,21	0,64	0,78	0,40	0,23	0,10
Current	43,81 [A]	9,66	8,00	3,93	1,50	2,73	1,89	1,47	1,33

Harmonic Judgement Criteria

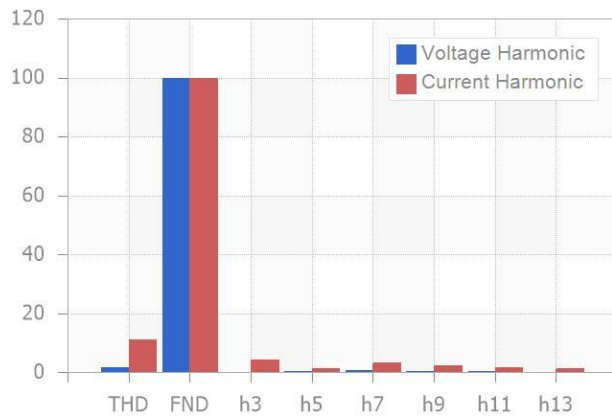
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

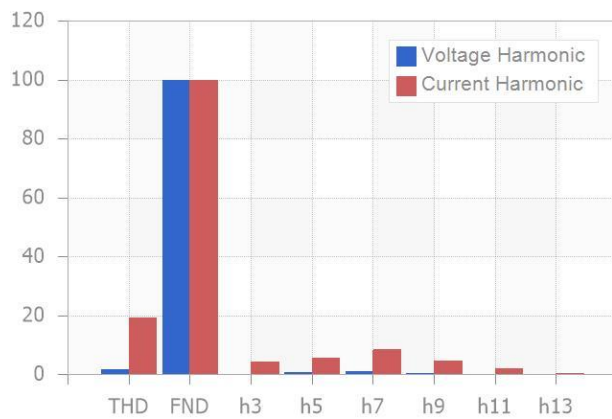
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



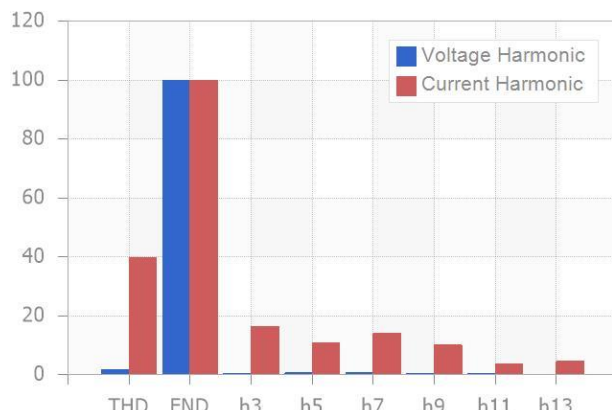
Item	Voltage [%]	Current [%]
THD	1,67	11,18
FND	100,00	100,00
h3	0,21	4,46
h5	0,53	1,49
h7	0,87	3,24
h9	0,41	2,35
h11	0,27	1,64
h13	0,16	1,28

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,73	19,12
FND	100,00	100,00
h3	0,10	4,46
h5	0,69	5,71
h7	0,91	8,37
h9	0,44	4,60
h11	0,16	2,07
h13	0,05	0,50

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,77	39,87
FND	100,00	100,00
h3	0,38	16,46
h5	0,58	10,81
h7	0,85	13,97
h9	0,41	10,06
h11	0,33	3,49
h13	0,21	4,60

Stadyum Batı Cephe Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	402,40 [V]	1,59	8,00	0,63	1,00	0,85	0,49	0,11	0,07
Current	38,17 [A]	13,46	8,00	10,98	5,26	4,87	2,83	0,99	0,64

Harmonic Judgement Criteria

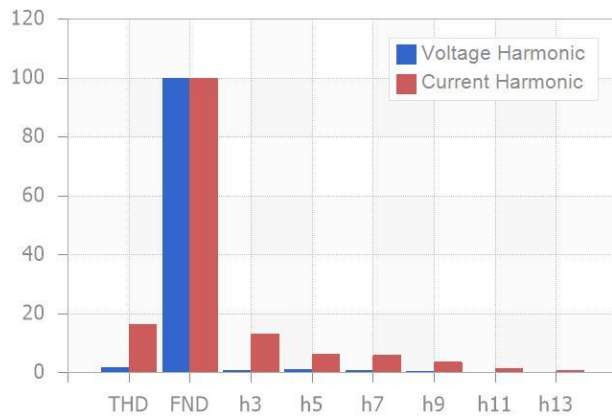
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

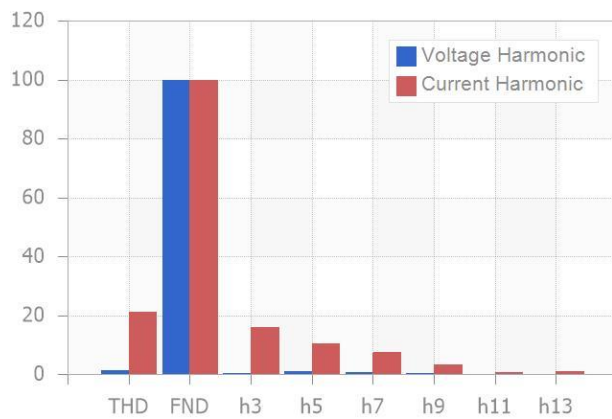
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



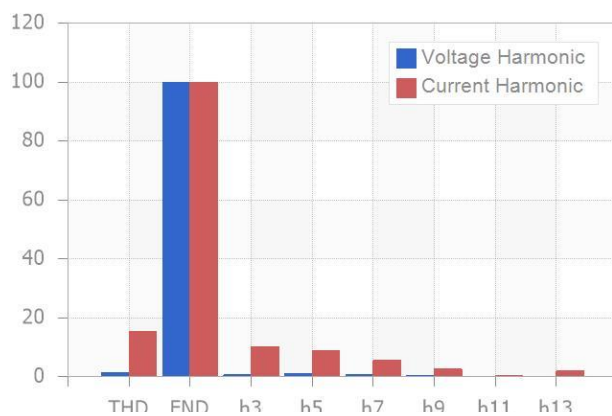
Item	Voltage [%]	Current [%]
THD	1,66	16,48
FND	100,00	100,00
h3	0,82	13,14
h5	1,01	6,18
h7	0,79	5,86
h9	0,48	3,50
h11	0,15	1,26
h13	0,08	0,70

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,49	21,36
FND	100,00	100,00
h3	0,42	16,13
h5	1,06	10,63
h7	0,75	7,48
h9	0,43	3,43
h11	0,17	0,59
h13	0,11	1,11

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,51	15,41
FND	100,00	100,00
h3	0,68	10,15
h5	0,98	8,94
h7	0,63	5,48
h9	0,46	2,60
h11	0,09	0,54
h13	0,09	1,94

Stadyum Doğu Cephe Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	401,63 [V]	1,56	8,00	0,12	1,26	0,84	0,20	0,14	0,07
Current	9,53 [A]	18,25	8,00	10,62	11,53	7,38	4,86	2,22	1,84

Harmonic Judgement Criteria

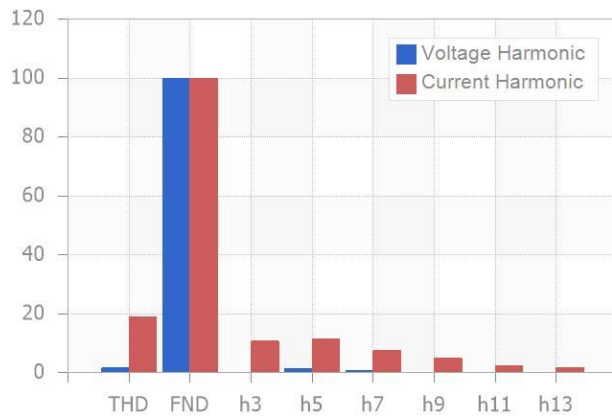
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

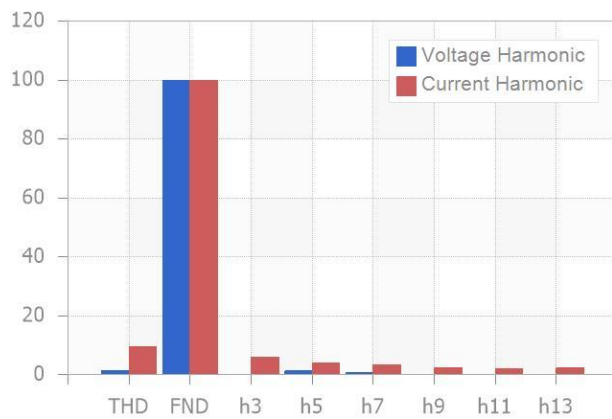
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



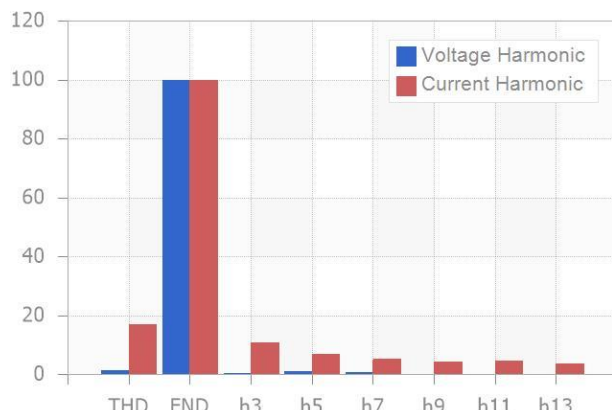
Item	Voltage [%]	Current [%]
THD	1,54	18,89
FND	100,00	100,00
h3	0,15	10,66
h5	1,28	11,50
h7	0,77	7,40
h9	0,19	4,90
h11	0,15	2,21
h13	0,08	1,83

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,51	9,58
FND	100,00	100,00
h3	0,21	5,93
h5	1,24	3,95
h7	0,76	3,34
h9	0,21	2,48
h11	0,10	2,14
h13	0,08	2,24

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,45	16,98
FND	100,00	100,00
h3	0,33	10,96
h5	1,17	6,83
h7	0,69	5,19
h9	0,21	4,46
h11	0,14	4,74
h13	0,10	3,66

Mühendislik Fakültesi A-C Blok Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	401,95 [V]	1,07	8,00	0,46	0,55	0,32	0,43	0,12	0,04
Current	77,41 [A]	28,21	8,00	14,94	25,04	14,01	2,64	3,87	1,71

Harmonic Judgement Criteria

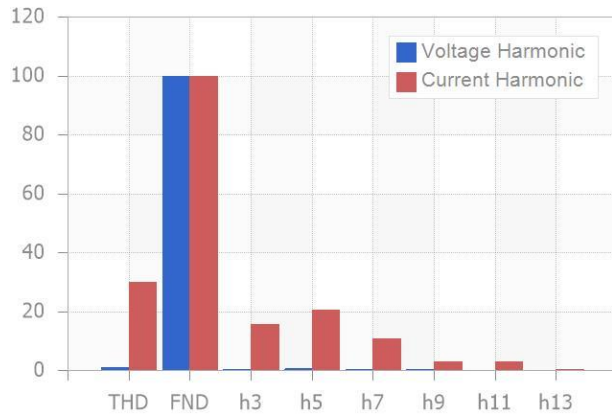
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

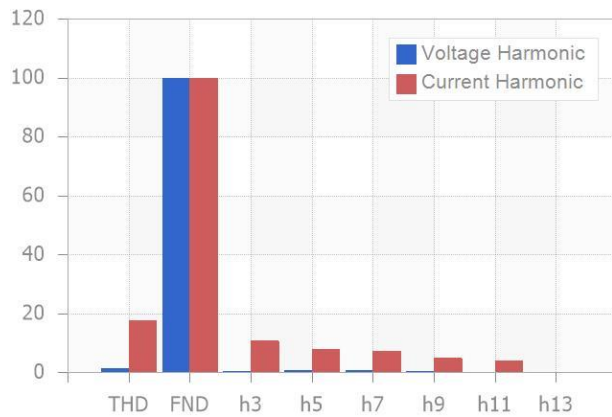
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



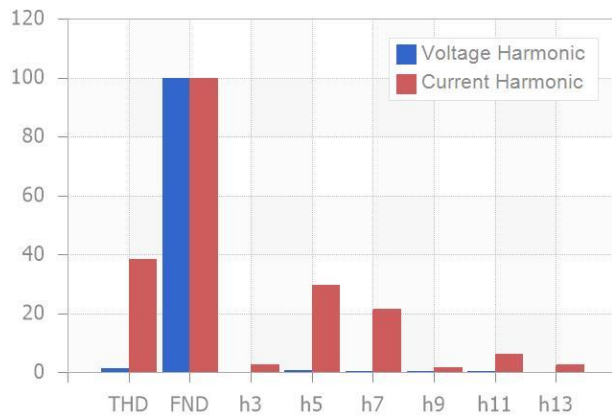
Item	Voltage [%]	Current [%]
THD	1,08	29,96
FND	100,00	100,00
h3	0,45	15,75
h5	0,57	20,49
h7	0,30	10,87
h9	0,44	3,02
h11	0,12	3,08
h13	0,02	0,53

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,30	17,61
FND	100,00	100,00
h3	0,56	10,69
h5	0,74	7,83
h7	0,61	7,31
h9	0,43	4,85
h11	0,16	3,92
h13	0,08	0,14

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,27	38,43
FND	100,00	100,00
h3	0,23	2,64
h5	0,87	29,68
h7	0,49	21,47
h9	0,32	1,85
h11	0,28	6,13
h13	0,18	2,67

Mühendislik Fakültesi D-E Blok Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	402,61 [V]	1,19	8,00	0,39	0,94	0,43	0,24	0,12	0,04
Current	14,88 [A]	19,23	8,00	5,10	7,40	3,17	3,51	2,34	2,71

Harmonic Judgement Criteria

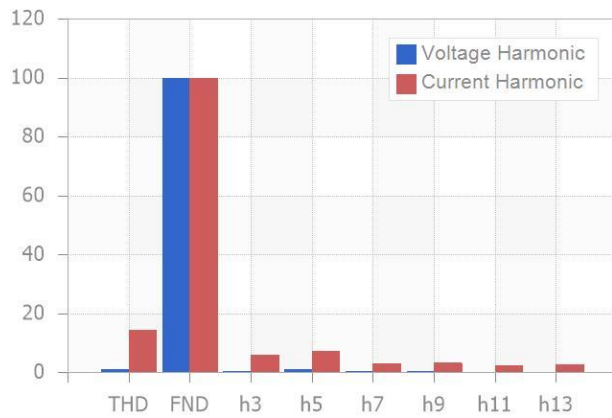
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

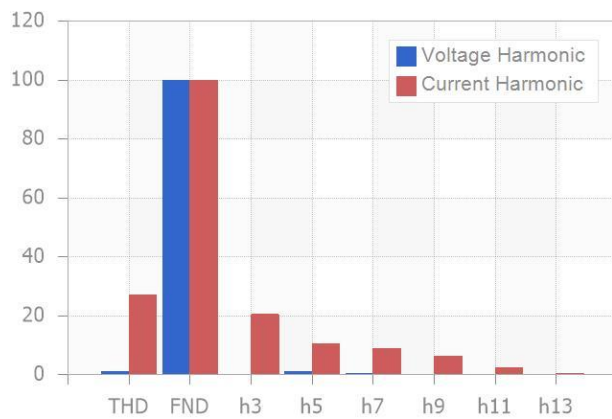
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



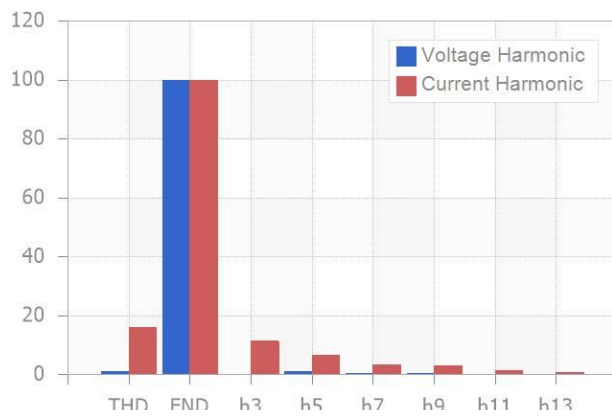
Item	Voltage [%]	Current [%]
THD	1,21	14,28
FND	100,00	100,00
h3	0,38	5,98
h5	0,95	7,19
h7	0,45	3,03
h9	0,24	3,28
h11	0,11	2,51
h13	0,04	2,70

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,21	27,06
FND	100,00	100,00
h3	0,11	20,40
h5	1,01	10,36
h7	0,54	8,88
h9	0,18	6,35
h11	0,12	2,27
h13	0,11	0,49

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,20	15,95
FND	100,00	100,00
h3	0,23	11,34
h5	0,99	6,49
h7	0,45	3,34
h9	0,25	3,05
h11	0,07	1,34
h13	0,06	0,88

Mühendislik Fakültesi B Blok Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	403,78 [V]	1,44	8,00	0,15	1,12	0,66	0,28	0,08	0,07
Current	62,04 [A]	9,45	8,00	7,52	3,46	3,22	2,00	1,44	0,95

Harmonic Judgement Criteria

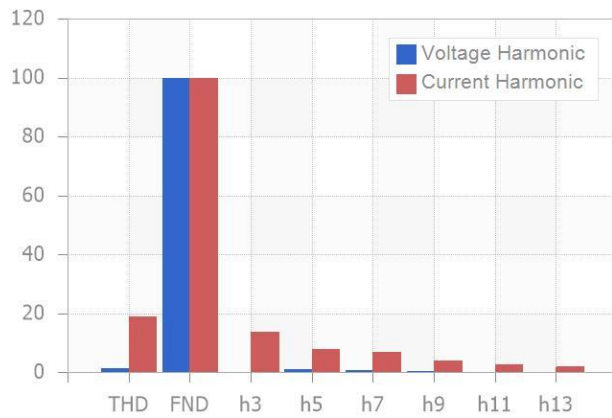
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

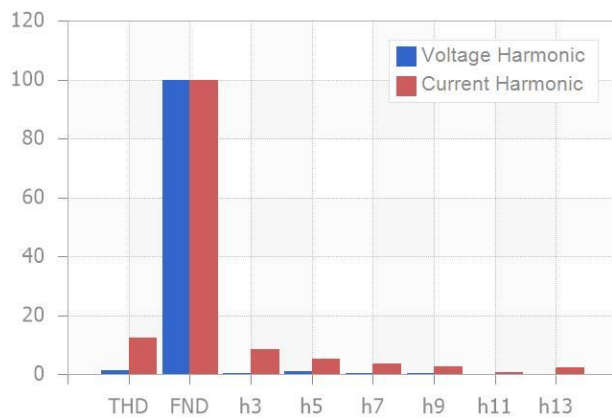
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



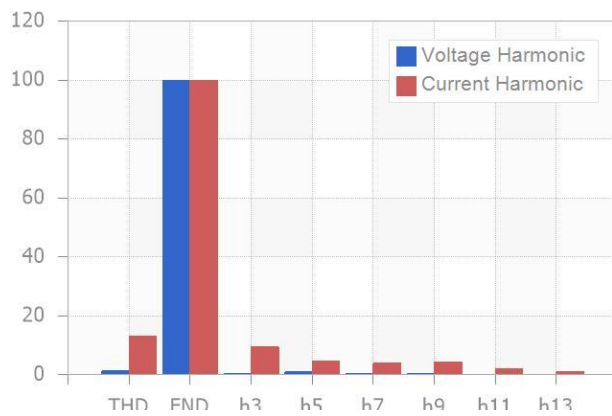
Item	Voltage [%]	Current [%]
THD	1,38	19,01
FND	100,00	100,00
h3	0,17	13,69
h5	1,05	7,79
h7	0,60	7,03
h9	0,28	4,08
h11	0,11	2,63
h13	0,02	2,01

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,35	12,28
FND	100,00	100,00
h3	0,50	8,59
h5	0,99	5,23
h7	0,43	3,50
h9	0,31	2,66
h11	0,20	0,69
h13	0,16	2,31

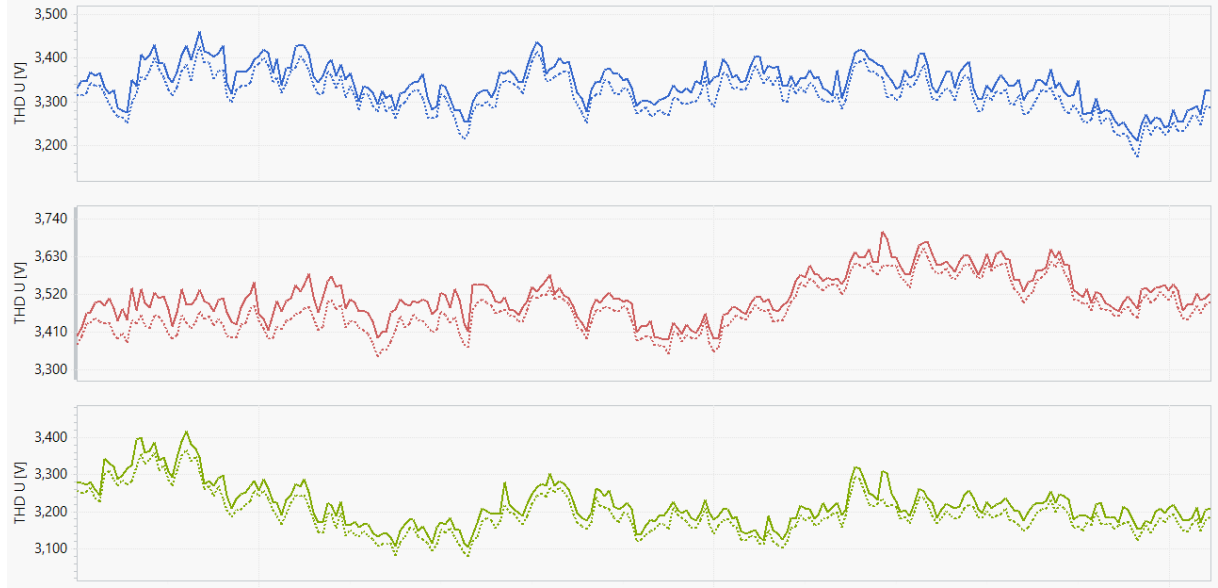
T phase harmonics



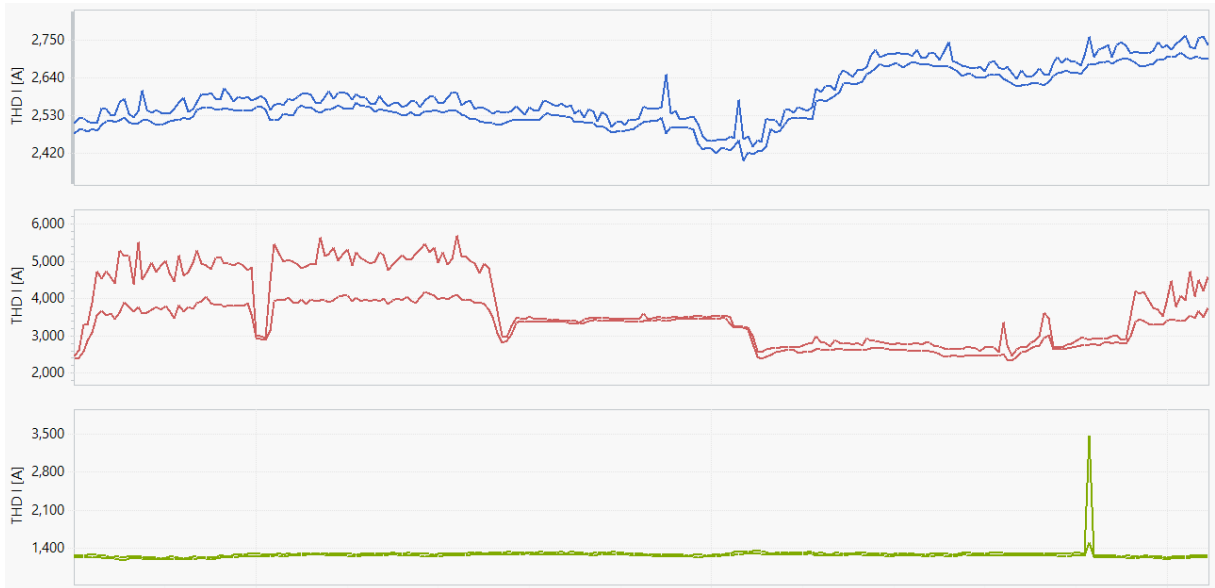
Item	Voltage [%]	Current [%]
THD	1,23	13,06
FND	100,00	100,00
h3	0,27	9,42
h5	0,91	4,53
h7	0,42	3,90
h9	0,36	4,35
h11	0,06	1,94
h13	0,11	0,90

Spor Bilimleri Fakültesi A Blok Pano Güç Kalitesi Ölçüm Raporu

Gerilim Harmonikleri



Akım Harmonikleri



Spor Bilimleri Fakültesi B-C-D Blok Pano Güç Kalitesi Ölçüm Raporu

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	404,19 [V]	1,37	8,00	0,13	0,89	0,98	0,19	0,21	0,08
Current	89,97 [A]	7,82	8,00	4,10	4,22	1,85	1,27	1,87	0,21

Harmonic Judgement Criteria

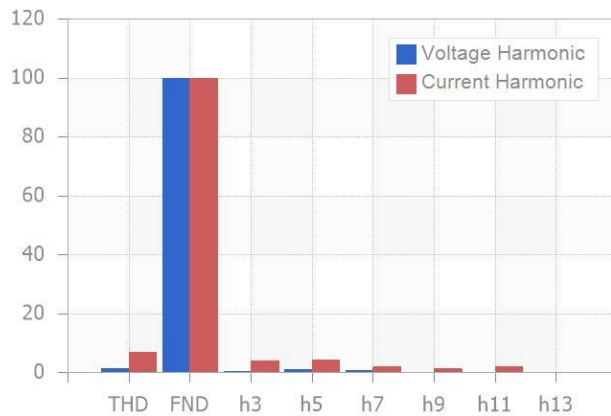
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

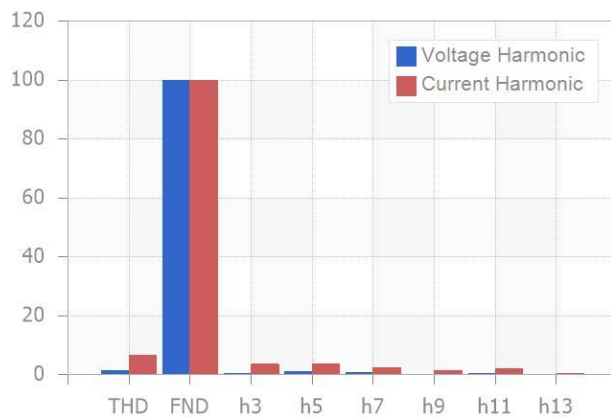
SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

R phase harmonics



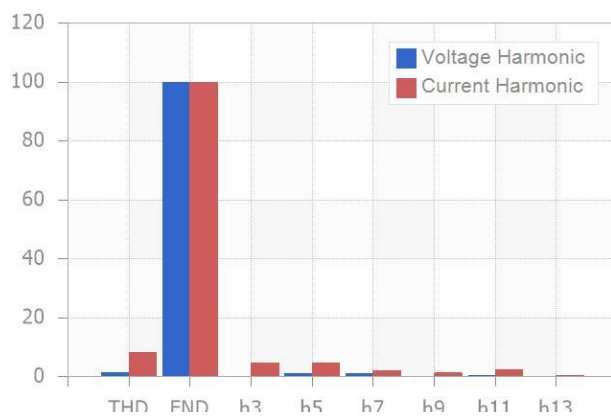
Item	Voltage [%]	Current [%]
THD	1,38	7,06
FND	100,00	100,00
h3	0,24	4,11
h5	0,99	4,20
h7	0,88	1,88
h9	0,18	1,29
h11	0,19	1,94
h13	0,07	0,19

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,47	6,71
FND	100,00	100,00
h3	0,35	3,50
h5	1,04	3,75
h7	0,87	2,51
h9	0,23	1,46
h11	0,26	2,03
h13	0,08	0,38

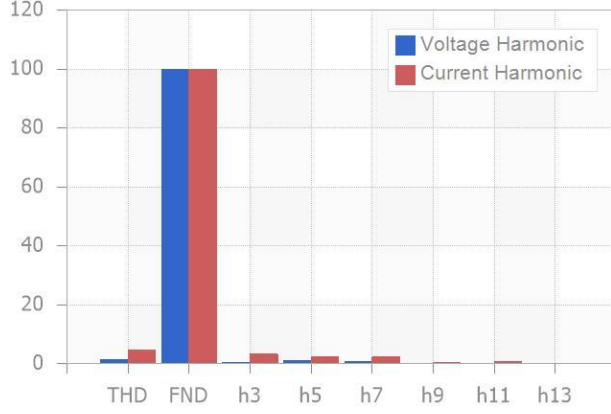
T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,38	8,23
FND	100,00	100,00
h3	0,04	4,68
h5	0,98	4,66
h7	0,89	2,11
h9	0,11	1,24
h11	0,26	2,47
h13	0,12	0,56

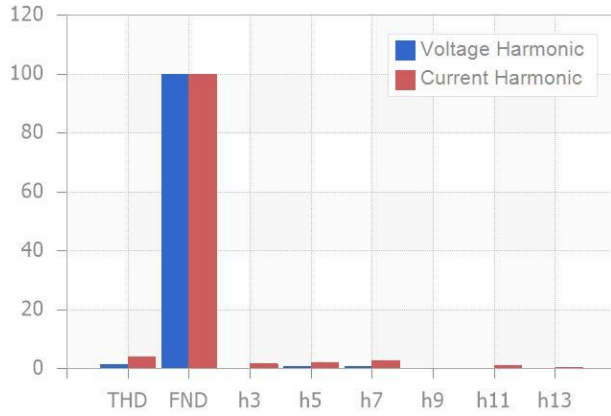
G Blok ADP 2 Güç Kalitesi Ölçüm Raporu

R phase harmonics



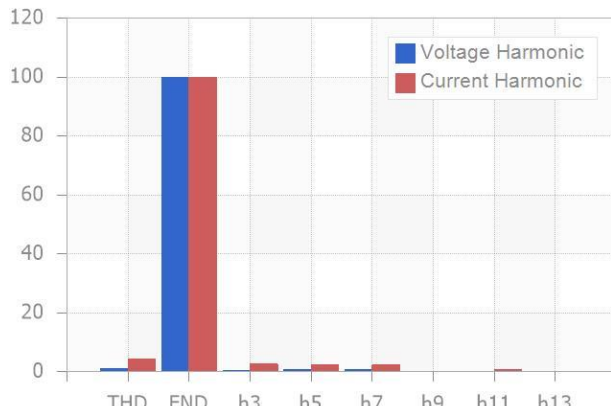
Item	Voltage [%]	Current [%]
THD	1,46	4,77
FND	100,00	100,00
h3	0,54	3,24
h5	0,95	2,23
h7	0,74	2,30
h9	0,20	0,35
h11	0,05	0,78
h13	0,14	0,12

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,27	3,92
FND	100,00	100,00
h3	0,15	1,59
h5	0,67	1,87
h7	0,80	2,74
h9	0,15	0,12
h11	0,14	0,91
h13	0,13	0,27

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,17	4,30
FND	100,00	100,00
h3	0,36	2,62
h5	0,67	2,29
h7	0,63	2,25
h9	0,18	0,09
h11	0,10	0,63
h13	0,08	0,17

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	400,14 [V]	1,45	8,00	0,53	0,92	0,78	0,20	0,04	0,12
Current	502,73 [A]	4,27	5,00	2,71	2,00	2,25	0,32	0,90	0,06

Harmonic Judgement Criteria

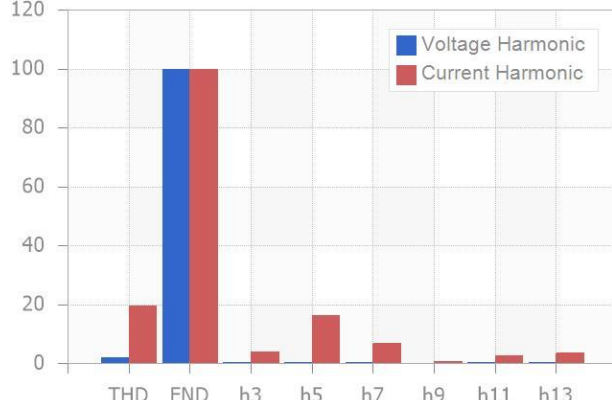
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

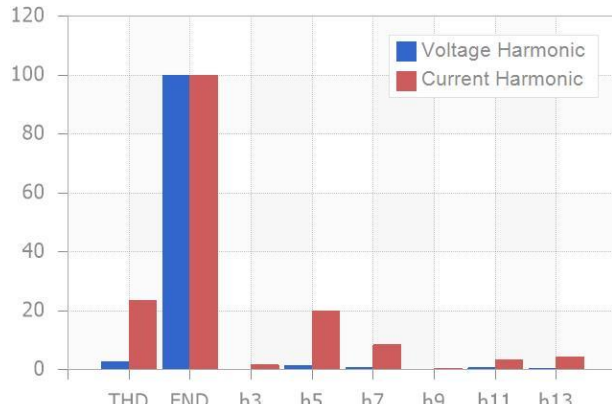
G Blok ADP 3 Güç Kalitesi Ölçüm Raporu

R phase harmonics



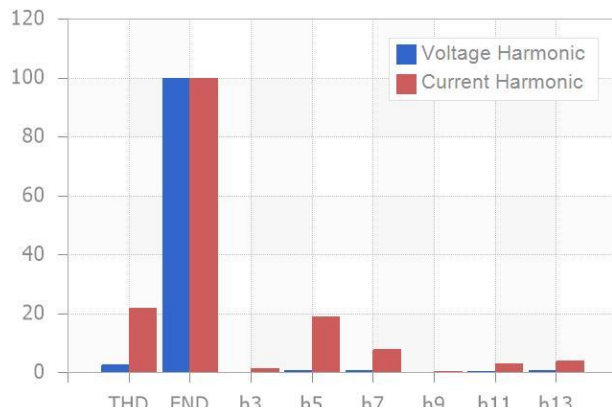
Item	Voltage [%]	Current [%]
THD	1,99	19,70
FND	100,00	100,00
h3	0,52	4,08
h5	0,35	16,44
h7	0,40	6,81
h9	0,23	0,88
h11	0,35	2,83
h13	0,45	3,58

S phase harmonics



Item	Voltage [%]	Current [%]
THD	2,66	23,36
FND	100,00	100,00
h3	0,07	1,63
h5	1,29	19,91
h7	0,85	8,45
h9	0,18	0,37
h11	0,60	3,17
h13	0,51	4,30

T phase harmonics



Item	Voltage [%]	Current [%]
THD	2,53	21,98
FND	100,00	100,00
h3	0,18	1,34
h5	0,86	18,86
h7	0,76	7,72
h9	0,17	0,37
h11	0,53	3,16
h13	0,69	3,97

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	398,25 [V]	2,05	8,00	0,53	0,39	0,40	0,24	0,36	0,45
Current	522,84 [A]	19,15	8,00	4,22	16,43	6,83	0,91	2,83	3,59

Harmonic Judgement Criteria

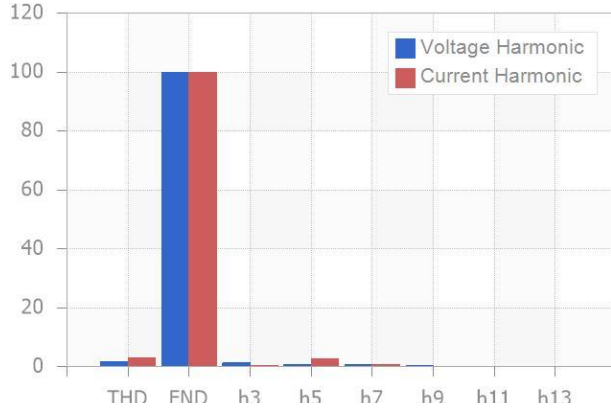
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

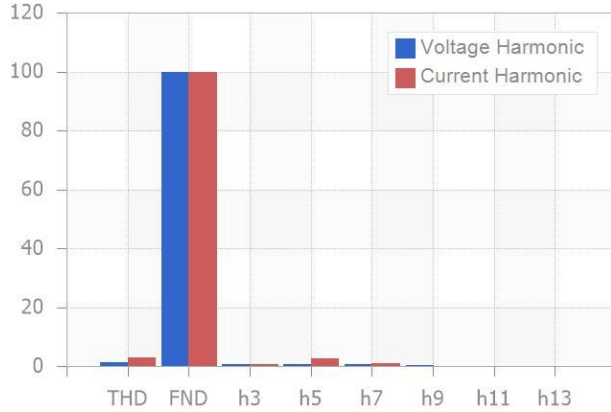
G Blok ADP 4 Güç Kalitesi Ölçüm Raporu

R phase harmonics



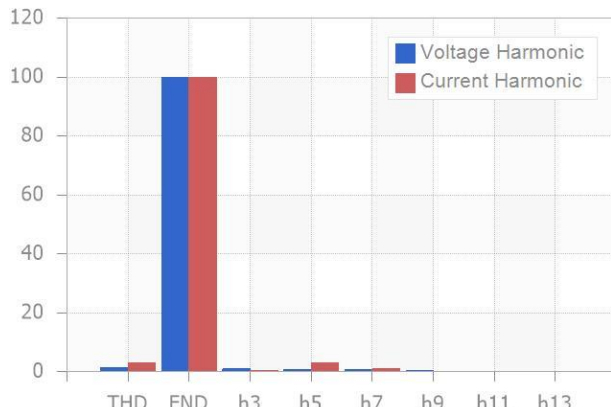
Item	Voltage [%]	Current [%]
THD	1,62	2,85
FND	100,00	100,00
h3	1,28	0,56
h5	0,66	2,64
h7	0,64	0,86
h9	0,28	0,08
h11	0,08	0,15
h13	0,12	0,21

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,32	3,07
FND	100,00	100,00
h3	0,81	0,70
h5	0,67	2,78
h7	0,70	1,03
h9	0,28	0,07
h11	0,08	0,21
h13	0,15	0,23

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,35	3,11
FND	100,00	100,00
h3	0,94	0,36
h5	0,65	2,91
h7	0,61	0,98
h9	0,25	0,01
h11	0,05	0,12
h13	0,13	0,20

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	400,06 [V]	1,61	8,00	1,27	0,65	0,64	0,28	0,07	0,12
Current	191,65 [A]	2,72	8,00	0,53	2,53	0,80	0,08	0,18	0,18

Harmonic Judgement Criteria

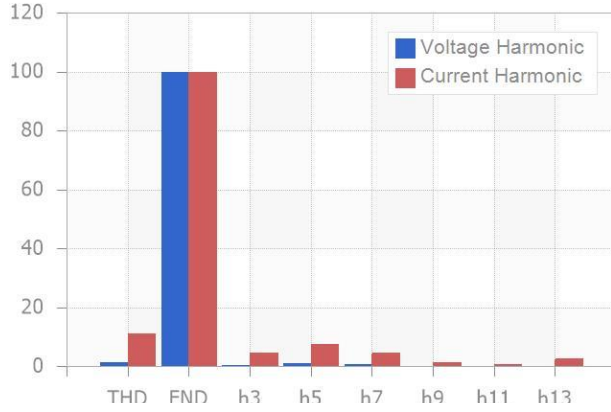
Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

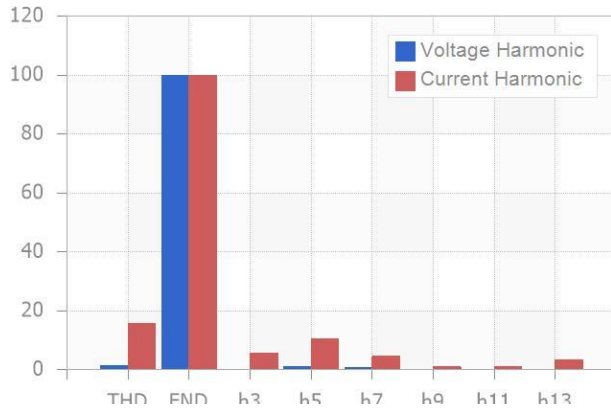
G Blok ADP 5 Güç Kalitesi Ölçüm Raporu

R phase harmonics



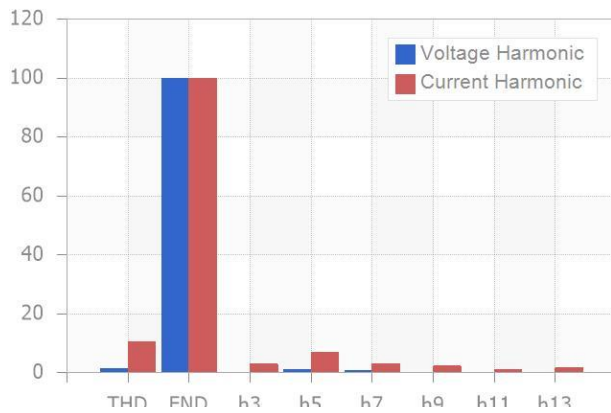
Item	Voltage [%]	Current [%]
THD	1,43	11,26
FND	100,00	100,00
h3	0,39	4,59
h5	1,04	7,60
h7	0,82	4,48
h9	0,11	1,35
h11	0,13	0,82
h13	0,15	2,63

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,45	15,78
FND	100,00	100,00
h3	0,22	5,69
h5	1,06	10,50
h7	0,81	4,53
h9	0,07	0,93
h11	0,16	1,06
h13	0,22	3,34

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,47	10,56
FND	100,00	100,00
h3	0,03	2,94
h5	1,16	6,86
h7	0,77	3,08
h9	0,17	2,22
h11	0,14	0,97
h13	0,14	1,69

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	404,54 [V]	1,44	8,00	0,38	1,09	0,80	0,11	0,11	0,13
Current	253,32 [A]	12,47	8,00	3,56	10,46	4,73	1,16	1,10	1,91

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

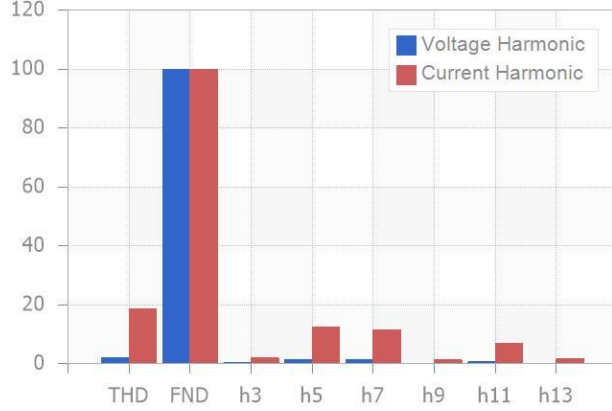
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

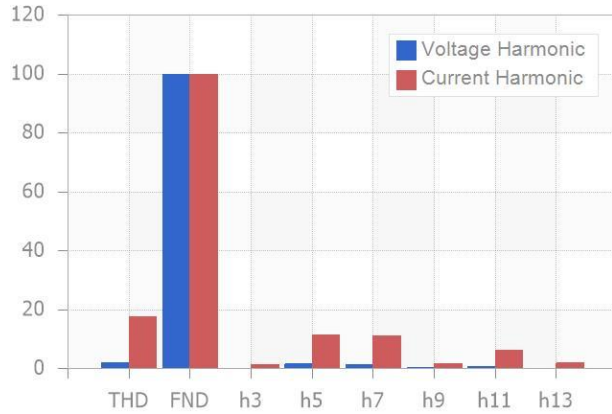
B Blok TR 2 Güç Kalitesi Ölçüm Raporu

R phase harmonics



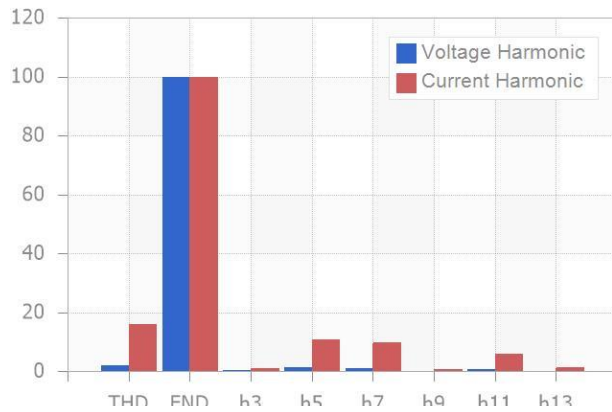
Item	Voltage [%]	Current [%]
THD	2,01	18,45
FND	100,00	100,00
h3	0,29	1,95
h5	1,39	12,28
h7	1,24	11,44
h9	0,17	1,32
h11	0,60	6,77
h13	0,18	1,68

S phase harmonics



Item	Voltage [%]	Current [%]
THD	2,14	17,74
FND	100,00	100,00
h3	0,06	1,36
h5	1,57	11,58
h7	1,25	11,28
h9	0,24	1,79
h11	0,65	6,39
h13	0,15	1,93

T phase harmonics



Item	Voltage [%]	Current [%]
THD	2,04	15,97
FND	100,00	100,00
h3	0,39	1,21
h5	1,47	10,82
h7	1,15	9,71
h9	0,08	0,69
h11	0,63	5,94
h13	0,06	1,24

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	403,37 [V]	1,97	8,00	0,24	1,37	1,16	0,17	0,66	0,19
Current	476,07 [A]	16,16	8,00	1,77	12,05	8,52	1,22	6,35	1,85

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

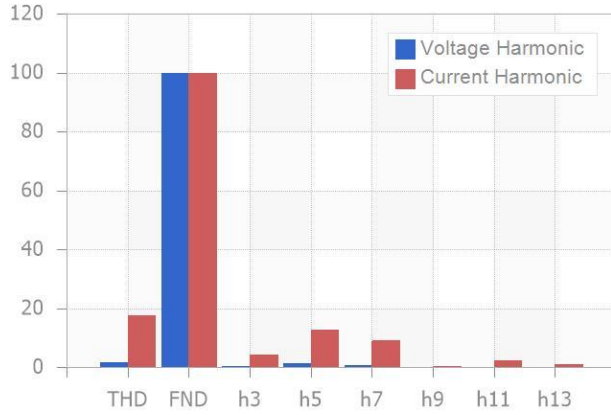
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

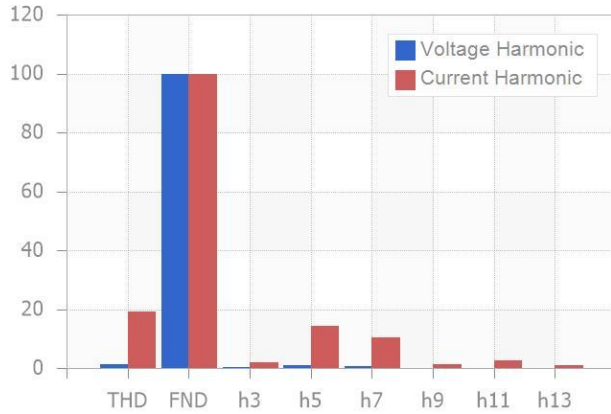
L Blok Psikiyatri Güç Kalitesi Ölçüm Raporu

R phase harmonics



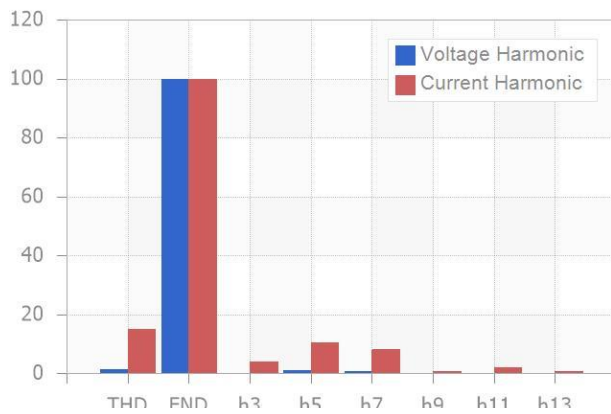
Item	Voltage [%]	Current [%]
THD	1,70	17,67
FND	100,00	100,00
h3	0,48	4,35
h5	1,28	12,64
h7	0,84	9,14
h9	0,10	0,38
h11	0,18	2,50
h13	0,17	1,07

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,47	19,39
FND	100,00	100,00
h3	0,24	2,16
h5	1,11	14,37
h7	0,74	10,54
h9	0,06	1,34
h11	0,23	2,67
h13	0,14	1,11

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,50	15,07
FND	100,00	100,00
h3	0,22	4,11
h5	1,19	10,47
h7	0,74	8,04
h9	0,14	0,85
h11	0,23	1,99
h13	0,16	0,75

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	403,80 [V]	1,83	8,00	0,50	1,52	0,76	0,13	0,22	0,19
Current	73,84 [A]	17,02	8,00	4,26	12,91	8,95	0,32	1,68	1,27

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

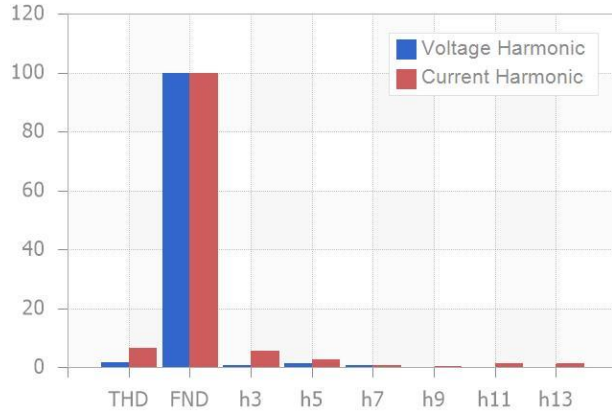
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

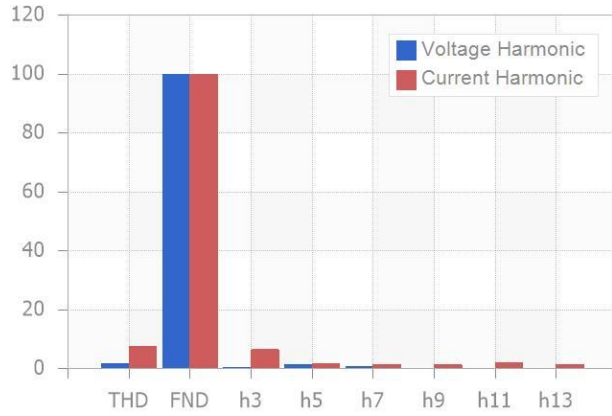
A2 Blok Güç Kalitesi Ölçüm Raporu

R phase harmonics



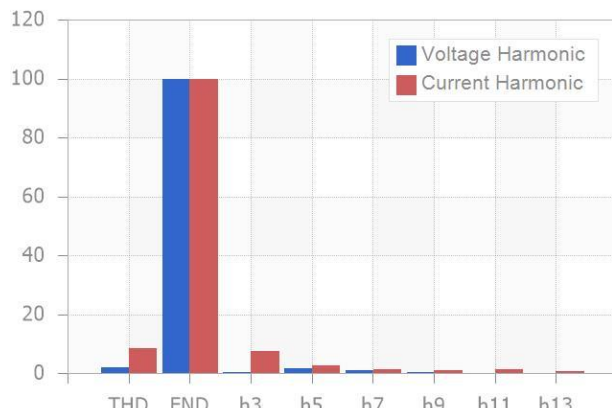
Item	Voltage [%]	Current [%]
THD	1,78	6,69
FND	100,00	100,00
h3	0,71	5,65
h5	1,42	2,65
h7	0,74	0,79
h9	0,17	0,27
h11	0,09	1,39
h13	0,12	1,30

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,76	7,45
FND	100,00	100,00
h3	0,42	6,42
h5	1,47	1,65
h7	0,79	1,50
h9	0,20	1,27
h11	0,06	2,00
h13	0,10	1,45

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,92	8,51
FND	100,00	100,00
h3	0,44	7,53
h5	1,59	2,61
h7	0,92	1,31
h9	0,25	1,19
h11	0,04	1,52
h13	0,06	0,81

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	402,23 [V]	1,85	8,00	0,70	1,52	0,74	0,16	0,08	0,12
Current	483,21 [A]	7,26	8,00	3,68	4,73	4,42	1,18	2,18	1,12

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

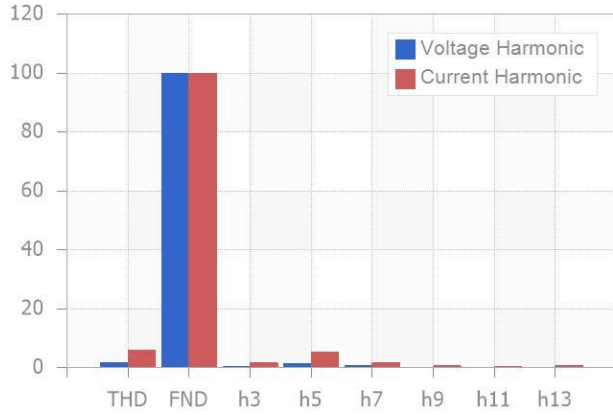
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

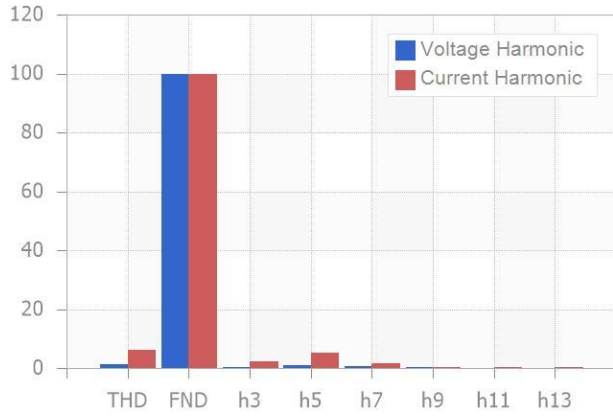
K Blok Güç Kalitesi Ölçüm Raporu

R phase harmonics



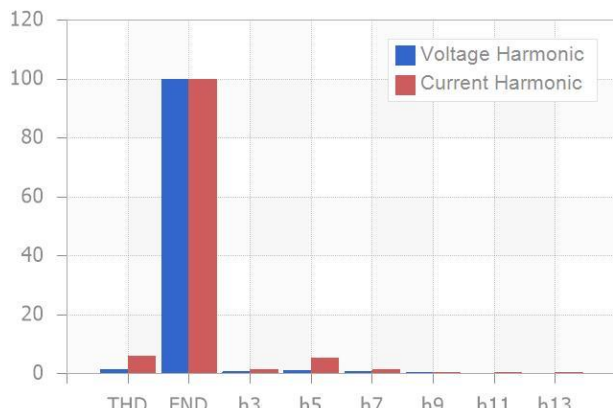
Item	Voltage [%]	Current [%]
THD	1,75	6,03
FND	100,00	100,00
h3	0,30	1,65
h5	1,49	5,43
h7	0,76	1,61
h9	0,21	0,57
h11	0,14	0,50
h13	0,07	0,63

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,42	6,21
FND	100,00	100,00
h3	0,36	2,40
h5	1,04	5,41
h7	0,82	1,66
h9	0,27	0,32
h11	0,03	0,35
h13	0,08	0,56

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,51	5,80
FND	100,00	100,00
h3	0,68	1,44
h5	1,03	5,38
h7	0,74	1,32
h9	0,30	0,28
h11	0,16	0,33
h13	0,16	0,56

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	401,82 [V]	1,71	8,00	0,25	1,38	0,92	0,15	0,16	0,10
Current	369,40 [A]	6,65	8,00	1,53	6,27	1,09	0,52	0,74	0,48

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

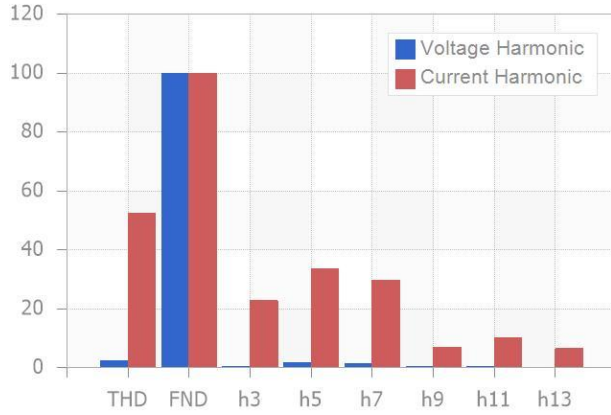
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

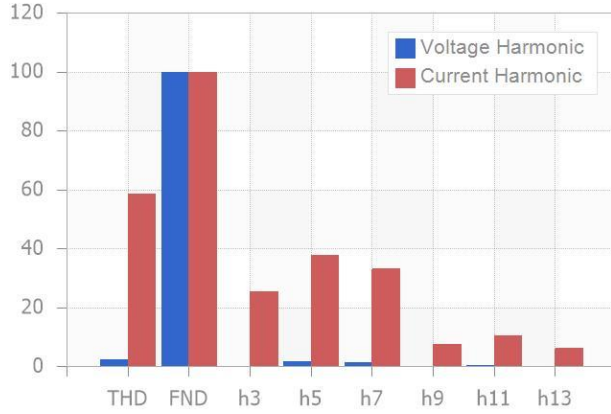
A1 Blok Güç Kalitesi Ölçüm Raporu

R phase harmonics



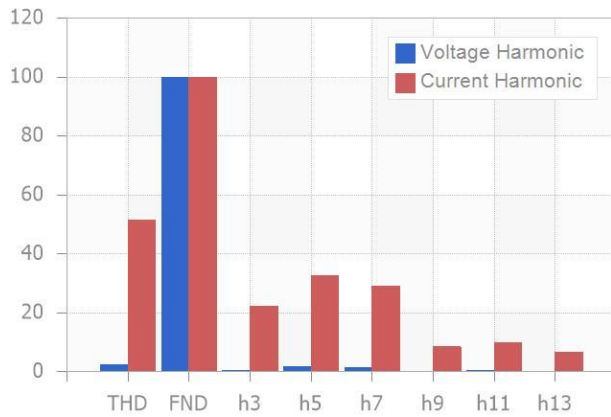
Item	Voltage [%]	Current [%]
THD	2,29	52,54
FND	100,00	100,00
h3	0,50	22,72
h5	1,69	33,61
h7	1,34	29,67
h9	0,25	7,00
h11	0,36	10,05
h13	0,18	6,54

S phase harmonics



Item	Voltage [%]	Current [%]
THD	2,33	58,64
FND	100,00	100,00
h3	0,21	25,57
h5	1,81	37,81
h7	1,35	33,16
h9	0,21	7,66
h11	0,32	10,62
h13	0,19	6,15

T phase harmonics



Item	Voltage [%]	Current [%]
THD	2,42	51,49
FND	100,00	100,00
h3	0,42	22,33
h5	1,86	32,73
h7	1,37	28,99
h9	0,23	8,42
h11	0,36	9,69
h13	0,22	6,69

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	405,90 [V]	2,25	8,00	0,50	1,66	1,30	0,24	0,38	0,26
Current	107,15 [A]	43,33	8,00	21,32	31,78	27,39	6,66	10,07	6,47

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

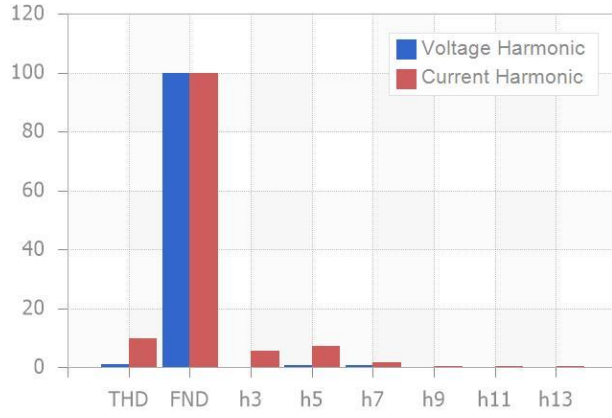
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

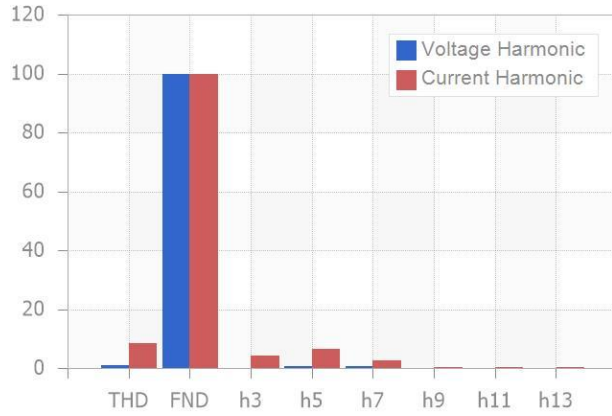
H Blok TR1 Güç Kalitesi Ölçüm Raporu

R phase harmonics



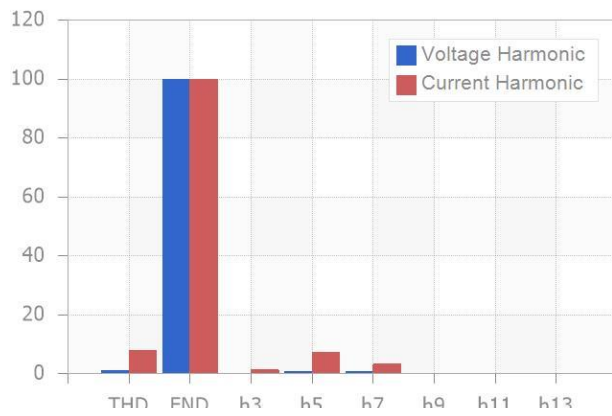
Item	Voltage [%]	Current [%]
THD	1,03	9,68
FND	100,00	100,00
h3	0,22	5,65
h5	0,61	7,36
h7	0,78	1,86
h9	0,04	0,42
h11	0,09	0,46
h13	0,14	0,37

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,14	8,55
FND	100,00	100,00
h3	0,21	4,29
h5	0,67	6,58
h7	0,86	2,79
h9	0,02	0,42
h11	0,11	0,56
h13	0,15	0,29

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,04	8,02
FND	100,00	100,00
h3	0,11	1,26
h5	0,64	7,25
h7	0,78	3,19
h9	0,05	0,12
h11	0,08	0,16
h13	0,15	0,18

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	402,61 [V]	1,09	8,00	0,19	0,70	0,78	0,05	0,06	0,13
Current	7,05 [A]	8,09	8,00	5,64	7,38	1,84	0,42	0,47	0,35

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

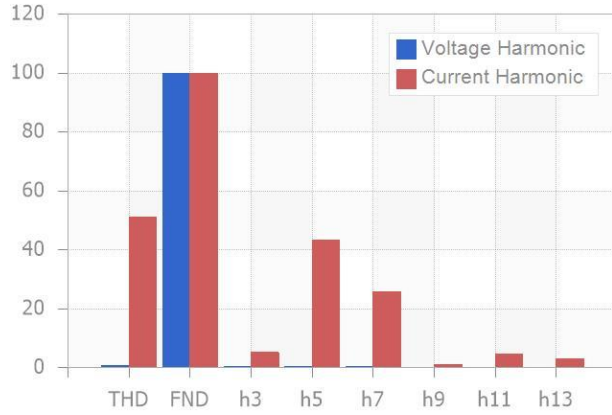
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

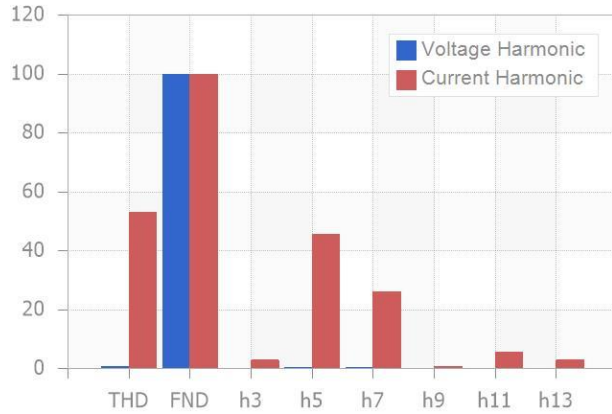
H Blok TR2 Güç Kalitesi Ölçüm Raporu

R phase harmonics



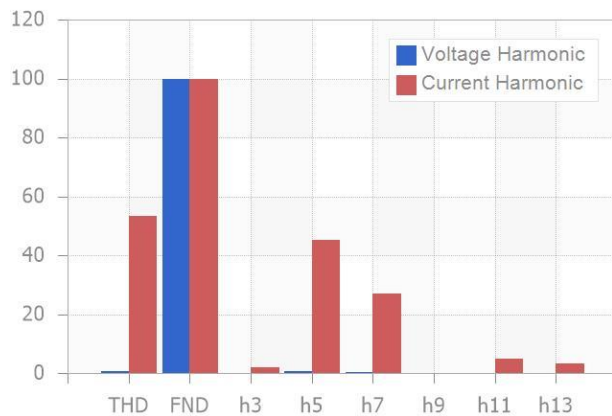
Item	Voltage [%]	Current [%]
THD	0,80	51,18
FND	100,00	100,00
h3	0,24	5,18
h5	0,54	43,43
h7	0,48	25,74
h9	0,03	1,15
h11	0,18	4,47
h13	0,09	3,10

S phase harmonics



Item	Voltage [%]	Current [%]
THD	0,75	53,04
FND	100,00	100,00
h3	0,10	2,85
h5	0,51	45,47
h7	0,46	26,09
h9	0,03	0,83
h11	0,20	5,46
h13	0,11	2,99

T phase harmonics



Item	Voltage [%]	Current [%]
THD	0,88	53,36
FND	100,00	100,00
h3	0,21	2,05
h5	0,61	45,36
h7	0,54	27,13
h9	0,04	0,21
h11	0,19	4,89
h13	0,08	3,45

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	401,83 [V]	0,83	8,00	0,25	0,58	0,48	0,03	0,17	0,10
Current	94,50 [A]	45,75	8,00	5,07	43,67	25,86	1,08	4,42	3,12

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

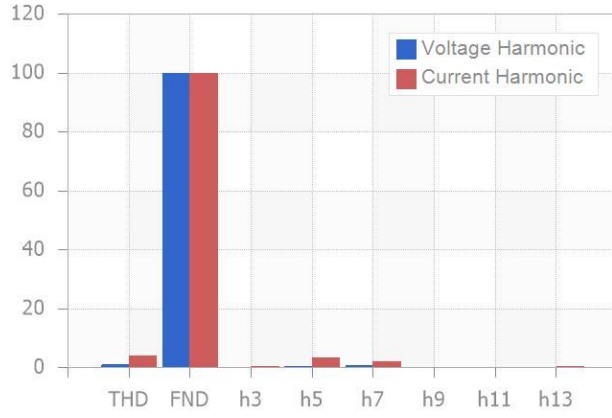
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00$ kV	5,00	8,00
$1,00$ kV < $U_{BUS} \leq 69,00$ kV	3,00	5,00
$69,00$ kV < $U_{BUS} \leq 161,00$ kV	1,50	2,50
$161,00$ kV < U_{BUS}	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

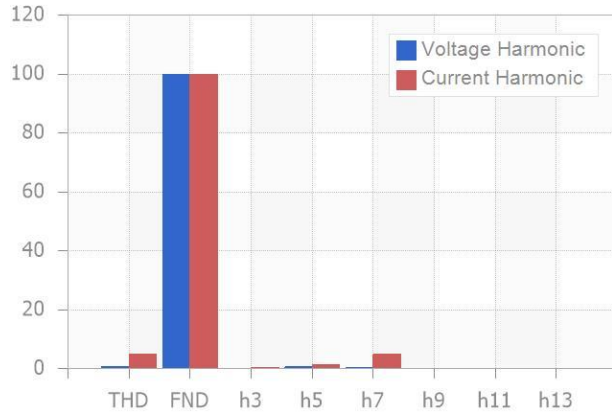
H Blok Yeni Trafo Güç Kalitesi Ölçüm Raporu

R phase harmonics



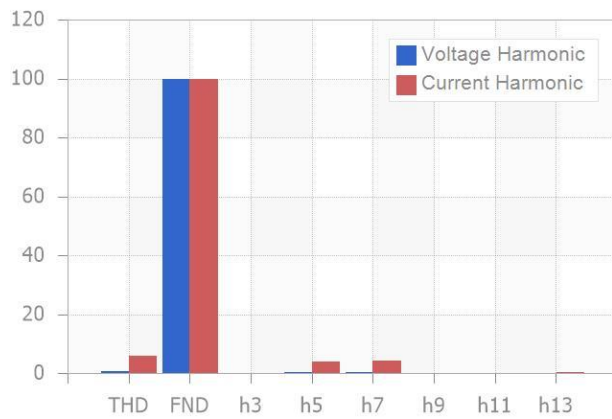
Item	Voltage [%]	Current [%]
THD	0,91	4,06
FND	100,00	100,00
h3	0,22	0,53
h5	0,54	3,36
h7	0,66	2,18
h9	0,06	0,05
h11	0,07	0,15
h13	0,11	0,24

S phase harmonics



Item	Voltage [%]	Current [%]
THD	0,76	5,11
FND	100,00	100,00
h3	0,18	0,46
h5	0,59	1,27
h7	0,41	4,91
h9	0,04	0,08
h11	0,09	0,17
h13	0,10	0,20

T phase harmonics



Item	Voltage [%]	Current [%]
THD	0,76	5,98
FND	100,00	100,00
h3	0,06	0,16
h5	0,48	3,98
h7	0,55	4,45
h9	0,06	0,03
h11	0,06	0,16
h13	0,12	0,25

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	399,62 [V]	0,95	8,00	0,22	0,58	0,69	0,07	0,04	0,13
Current	341,90 [A]	4,08	8,00	0,48	3,33	2,30	0,05	0,18	0,23

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

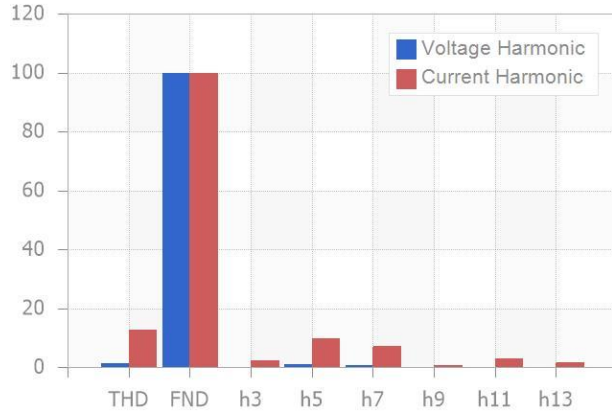
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

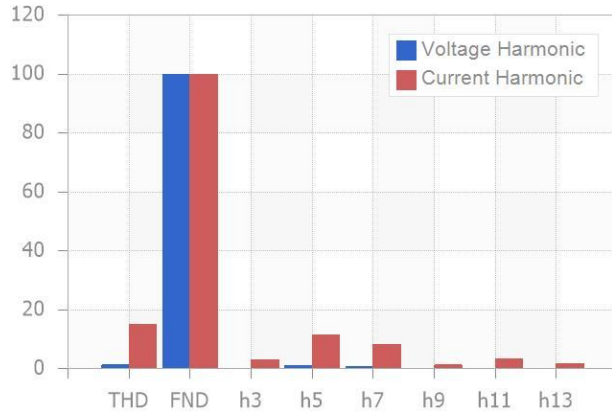
Isı Merkezi TR 2 Güç Kalitesi Ölçüm Raporu

R phase harmonics



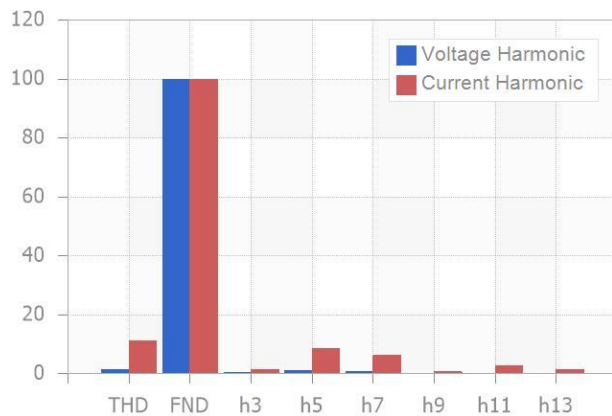
Item	Voltage [%]	Current [%]
THD	1,30	12,91
FND	100,00	100,00
h3	0,17	2,48
h5	1,10	9,83
h7	0,63	7,07
h9	0,06	0,78
h11	0,06	2,99
h13	0,17	1,54

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,22	15,09
FND	100,00	100,00
h3	0,15	3,11
h5	1,04	11,39
h7	0,57	8,25
h9	0,09	1,25
h11	0,05	3,48
h13	0,14	1,82

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,29	11,26
FND	100,00	100,00
h3	0,35	1,47
h5	1,06	8,53
h7	0,61	6,15
h9	0,02	0,67
h11	0,05	2,74
h13	0,16	1,53

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	401,55 [V]	1,39	8,00	0,17	1,15	0,71	0,05	0,06	0,16
Current	126,63 [A]	9,94	8,00	1,95	8,21	5,67	0,57	2,47	1,21

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

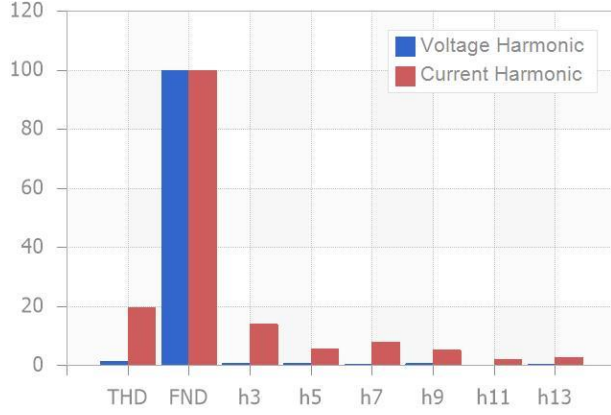
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

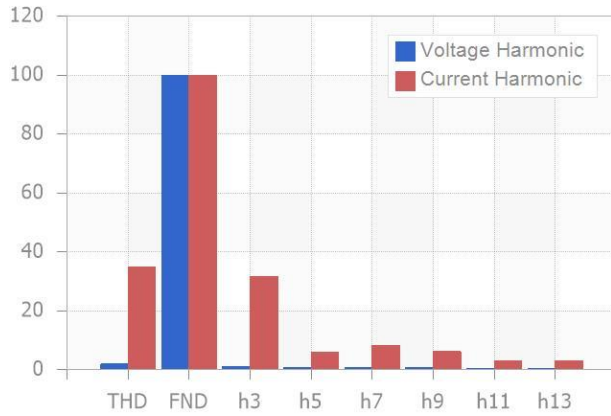
Güzel Sanatlar Fakültesi ADP Güç Kalitesi Ölçüm Raporu

R phase harmonics



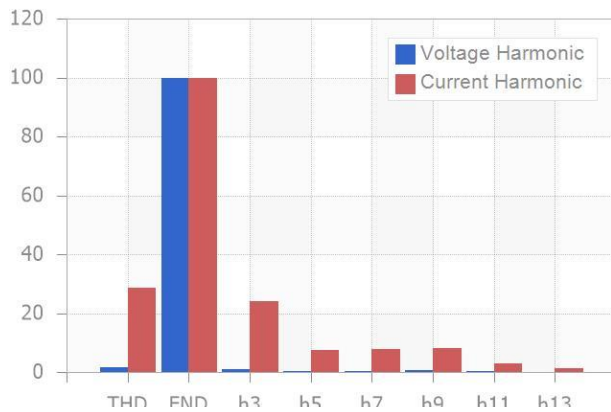
Item	Voltage [%]	Current [%]
THD	1,45	19,68
FND	100,00	100,00
h3	0,80	13,95
h5	0,61	5,60
h7	0,50	7,86
h9	0,71	5,18
h11	0,15	2,04
h13	0,25	2,68

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,89	34,96
FND	100,00	100,00
h3	1,17	31,65
h5	0,63	5,79
h7	0,77	8,27
h9	0,78	6,17
h11	0,39	3,00
h13	0,32	3,15

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,61	28,62
FND	100,00	100,00
h3	1,04	24,12
h5	0,37	7,49
h7	0,50	8,02
h9	0,81	8,23
h11	0,35	2,84
h13	0,15	1,40

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	401,22 [V]	1,50	8,00	0,89	0,64	0,55	0,64	0,15	0,24
Current	66,29 [A]	12,51	8,00	11,09	3,93	5,83	3,61	0,88	2,17

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

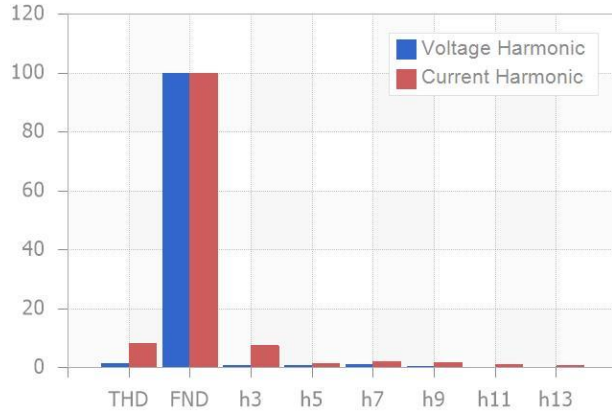
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

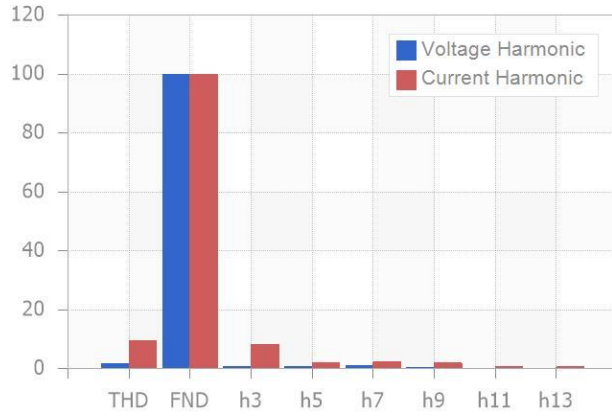
Kütüphane Güç Kalitesi Ölçüm Raporu

R phase harmonics



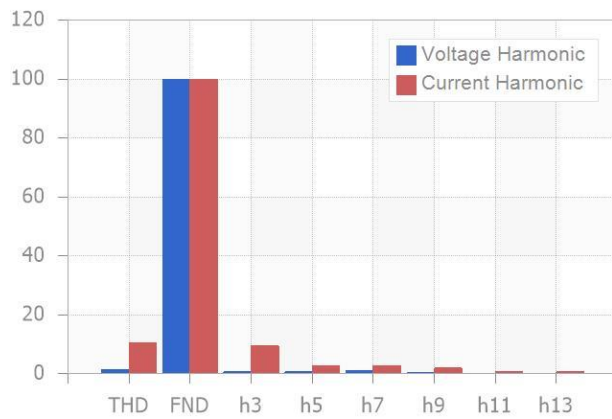
Item	Voltage [%]	Current [%]
THD	1,49	8,31
FND	100,00	100,00
h3	0,77	7,46
h5	0,66	1,42
h7	0,92	2,08
h9	0,30	1,66
h11	0,13	0,96
h13	0,20	0,64

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,60	9,51
FND	100,00	100,00
h3	0,80	8,36
h5	0,73	2,17
h7	0,97	2,27
h9	0,41	1,93
h11	0,06	0,77
h13	0,18	0,68

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,34	10,43
FND	100,00	100,00
h3	0,57	9,41
h5	0,57	2,57
h7	0,91	2,70
h9	0,37	1,88
h11	0,01	0,86
h13	0,19	0,65

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	403,23 [V]	1,52	8,00	0,74	0,74	0,93	0,29	0,11	0,20
Current	146,44 [A]	6,89	8,00	6,60	1,37	1,52	1,34	0,84	0,48

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

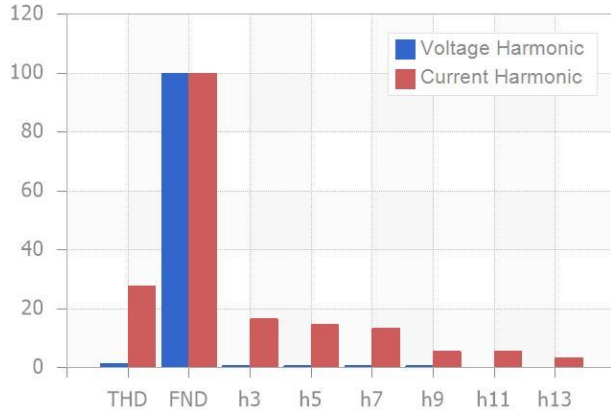
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

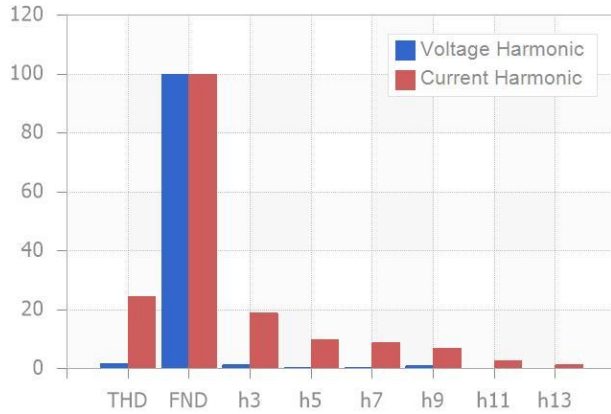
Rektörlük 1 ADP Güç Kalitesi Ölçüm Raporu

R phase harmonics



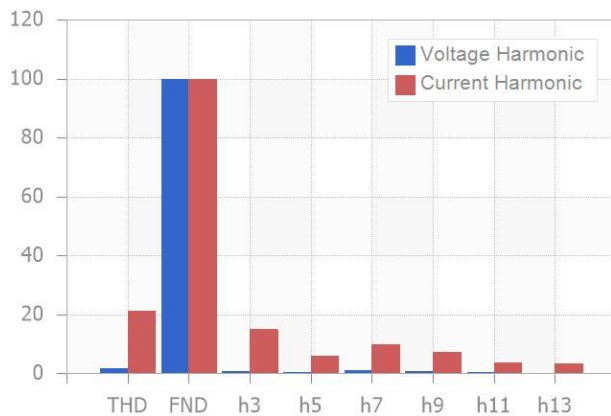
Item	Voltage [%]	Current [%]
THD	1,41	27,75
FND	100,00	100,00
h3	0,80	16,49
h5	0,59	14,82
h7	0,60	13,34
h9	0,64	5,52
h11	0,11	5,49
h13	0,17	3,35

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,82	24,43
FND	100,00	100,00
h3	1,29	18,83
h5	0,25	9,98
h7	0,54	8,77
h9	0,96	6,95
h11	0,15	2,72
h13	0,14	1,35

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,70	21,10
FND	100,00	100,00
h3	0,88	14,98
h5	0,54	5,84
h7	1,02	9,89
h9	0,74	7,19
h11	0,24	3,73
h13	0,04	3,43

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	402,89 [V]	1,40	8,00	0,79	0,54	0,67	0,56	0,26	0,27
Current	53,36 [A]	22,63	8,00	17,14	16,83	16,44	5,82	6,82	4,49

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

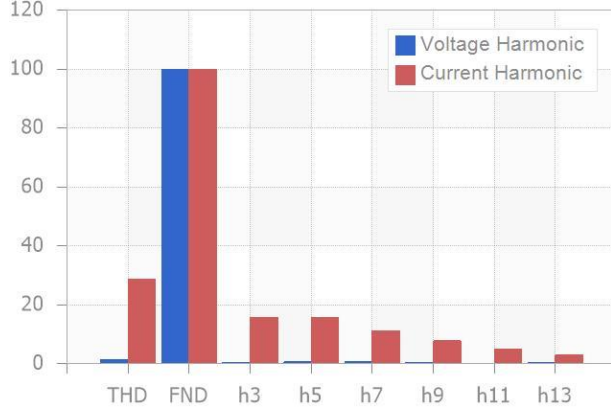
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

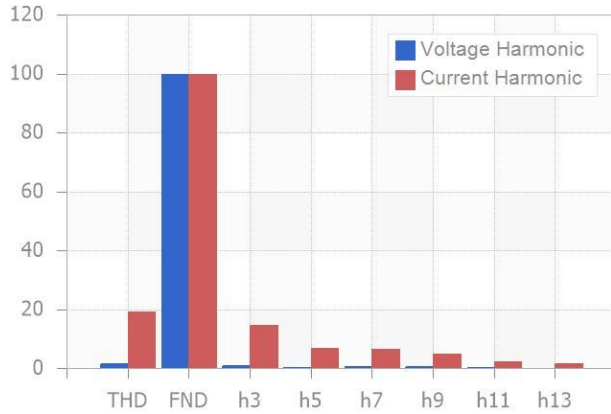
Rektörlük 2 ADP Güç Kalitesi Ölçüm Raporu

R phase harmonics



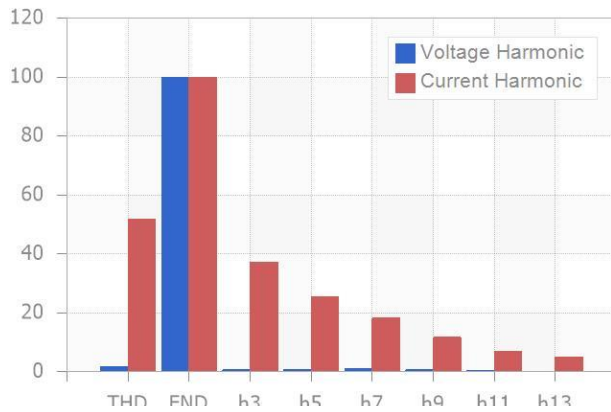
Item	Voltage [%]	Current [%]
THD	1,40	28,52
FND	100,00	100,00
h3	0,50	15,66
h5	0,58	15,75
h7	0,82	11,25
h9	0,56	7,73
h11	0,22	4,89
h13	0,24	2,96

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,54	19,23
FND	100,00	100,00
h3	0,91	14,76
h5	0,39	6,89
h7	0,72	6,56
h9	0,67	4,94
h11	0,24	2,46
h13	0,15	1,66

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,60	51,81
FND	100,00	100,00
h3	0,61	37,28
h5	0,67	25,43
h7	0,96	18,16
h9	0,63	11,65
h11	0,31	6,98
h13	0,20	5,00

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	404,16 [V]	1,37	8,00	0,47	0,46	0,82	0,54	0,26	0,35
Current	65,25 [A]	48,67	5,00	6,01	45,02	29,62	4,24	7,26	3,13

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

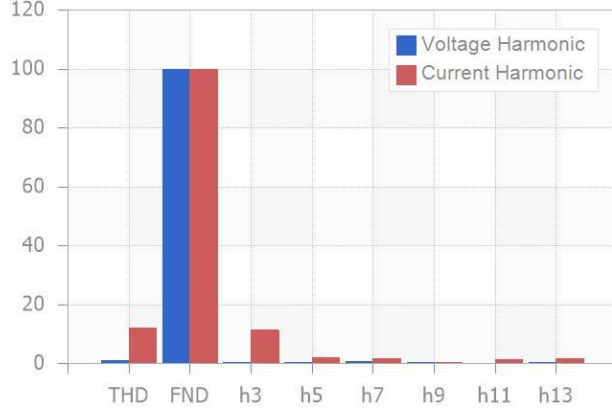
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

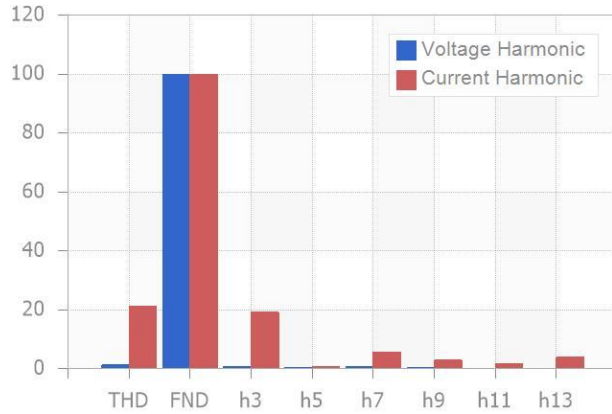
Rektörlük 3 ADP Güç Kalitesi Ölçüm Raporu

R phase harmonics



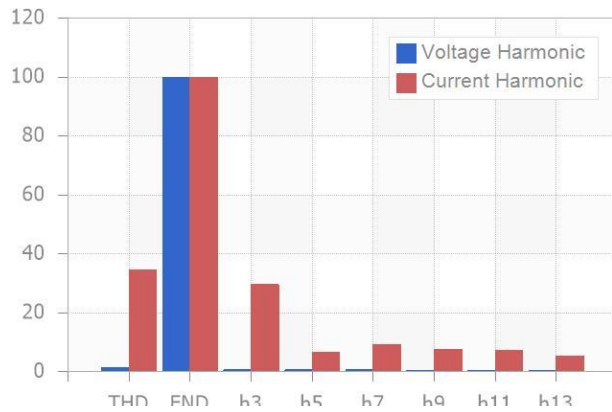
Item	Voltage [%]	Current [%]
THD	1,16	12,16
FND	100,00	100,00
h3	0,46	11,39
h5	0,54	2,01
h7	0,69	1,74
h9	0,37	0,55
h11	0,23	1,52
h13	0,24	1,83

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,24	21,14
FND	100,00	100,00
h3	0,72	19,20
h5	0,39	0,66
h7	0,68	5,68
h9	0,38	2,86
h11	0,17	1,69
h13	0,23	3,82

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,44	34,57
FND	100,00	100,00
h3	0,58	29,53
h5	0,58	6,57
h7	0,87	9,32
h9	0,50	7,63
h11	0,31	7,28
h13	0,24	5,40

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	404,91 [V]	1,27	8,00	0,42	0,51	0,90	0,37	0,24	0,22
Current	26,30 [A]	11,70	8,00	11,13	2,13	1,25	0,22	1,44	1,72

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

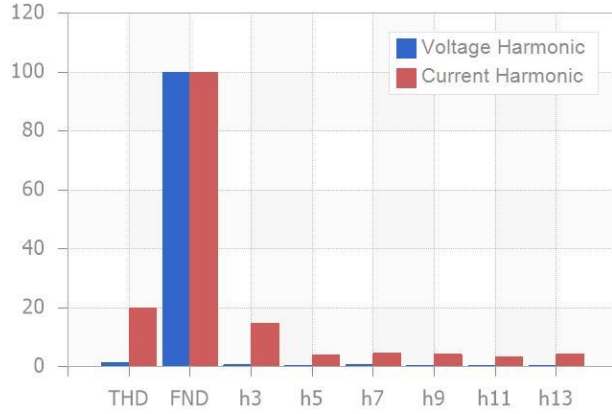
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

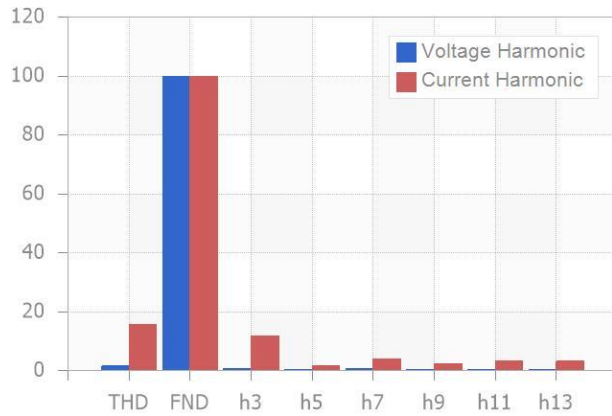
Rektörlük 4 ADP Güç Kalitesi Ölçüm Raporu

R phase harmonics



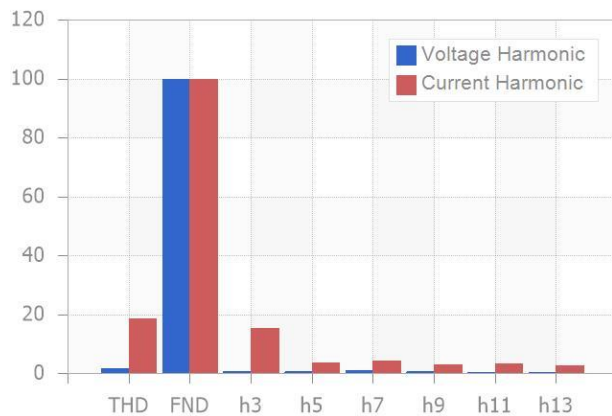
Item	Voltage [%]	Current [%]
THD	1,45	19,81
FND	100,00	100,00
h3	0,60	14,82
h5	0,51	3,97
h7	0,87	4,50
h9	0,53	4,23
h11	0,24	3,35
h13	0,33	4,22

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,57	15,73
FND	100,00	100,00
h3	0,86	11,74
h5	0,40	1,64
h7	0,88	4,10
h9	0,52	2,51
h11	0,28	3,37
h13	0,30	3,28

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,72	18,60
FND	100,00	100,00
h3	0,76	15,38
h5	0,57	3,54
h7	1,02	4,44
h9	0,66	3,16
h11	0,34	3,33
h13	0,27	2,68

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	404,22 [V]	1,49	8,00	0,60	0,59	0,91	0,51	0,23	0,30
Current	50,70 [A]	17,03	8,00	12,07	4,50	3,26	2,89	2,14	3,23

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

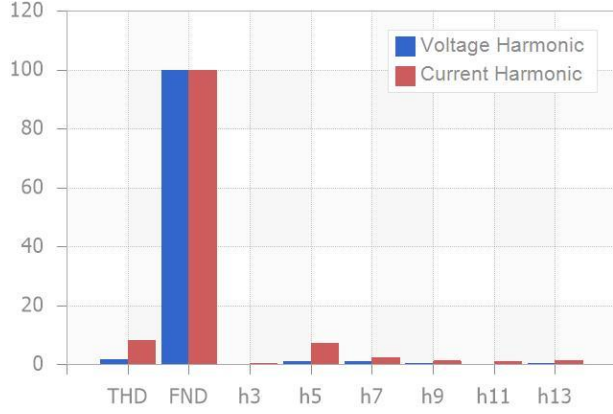
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

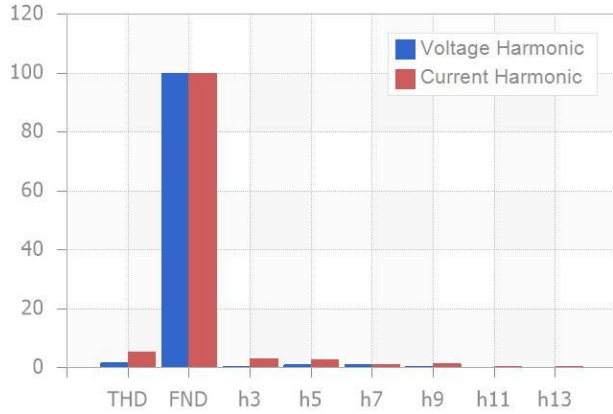
Merkezi Derslik A Blok Güç Kalitesi Ölçüm Raporu

R phase harmonics



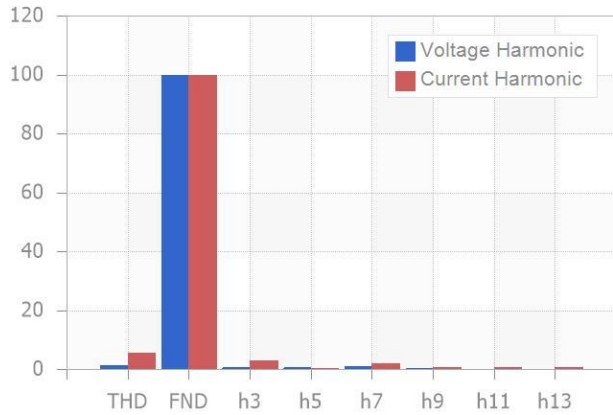
Item	Voltage [%]	Current [%]
THD	1,66	8,16
FND	100,00	100,00
h3	0,14	0,31
h5	0,98	7,31
h7	1,17	2,35
h9	0,43	1,25
h11	0,19	1,12
h13	0,30	1,53

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,56	5,24
FND	100,00	100,00
h3	0,25	2,98
h5	0,91	2,62
h7	1,06	1,02
h9	0,50	1,32
h11	0,07	0,55
h13	0,21	0,33

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,52	5,64
FND	100,00	100,00
h3	0,58	3,06
h5	0,59	0,29
h7	1,18	2,17
h9	0,38	0,77
h11	0,11	0,65
h13	0,20	0,86

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	393,45 [V]	1,61	8,00	0,14	0,95	1,14	0,45	0,15	0,27
Current	86,28 [A]	6,06	8,00	0,28	6,29	1,90	1,15	0,87	1,13

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

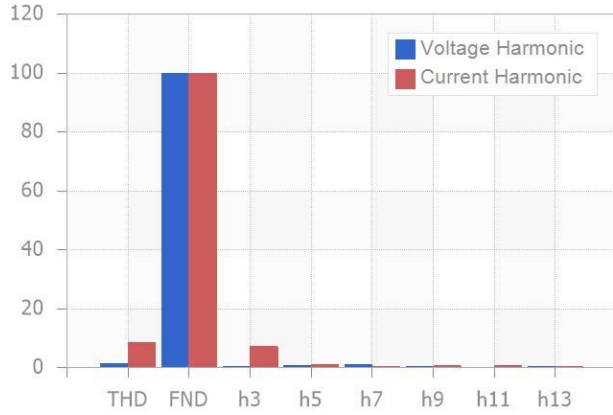
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

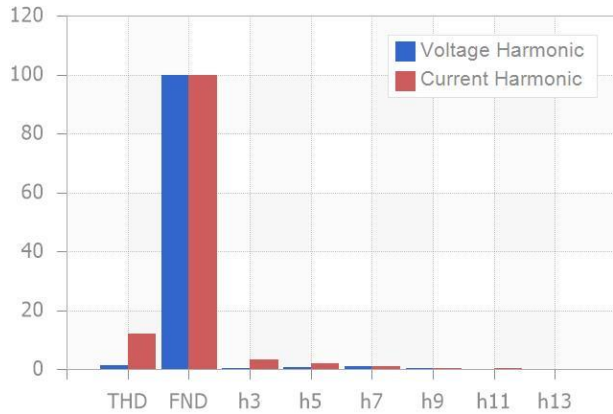
Merkezi Derslik B Blok Güç Kalitesi Ölçüm Raporu

R phase harmonics



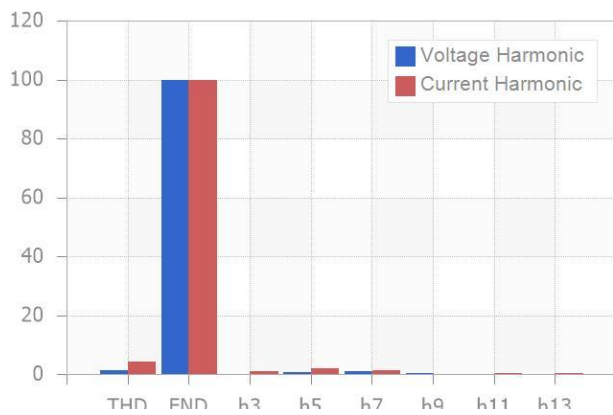
Item	Voltage [%]	Current [%]
THD	1,49	8,43
FND	100,00	100,00
h3	0,32	7,16
h5	0,71	0,89
h7	1,15	0,26
h9	0,39	0,57
h11	0,05	0,57
h13	0,28	0,26

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,37	12,24
FND	100,00	100,00
h3	0,49	3,42
h5	0,67	2,02
h7	1,02	0,95
h9	0,25	0,36
h11	0,07	0,36
h13	0,19	0,15

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,38	4,26
FND	100,00	100,00
h3	0,11	1,16
h5	0,76	2,18
h7	1,07	1,33
h9	0,29	0,18
h11	0,16	0,55
h13	0,18	0,45

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	391,77 [V]	1,55	8,00	0,23	0,77	1,20	0,43	0,04	0,27
Current	60,22 [A]	7,13	8,00	7,48	0,80	0,31	0,95	0,83	0,38

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

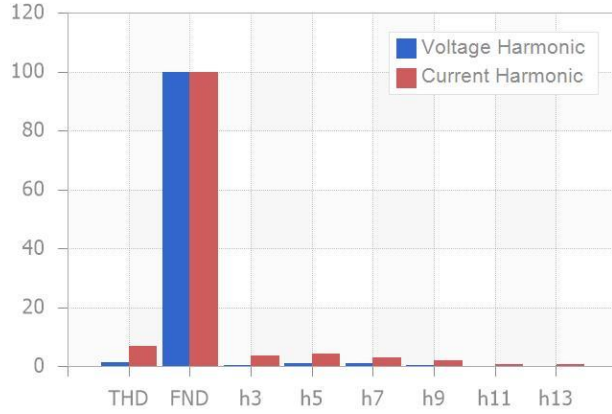
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

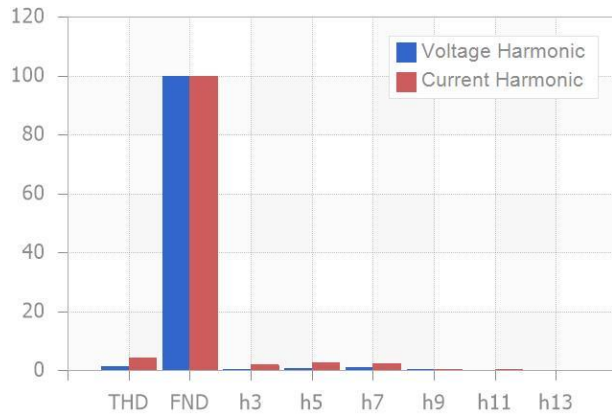
Fen Fakültesi A Blok Güç Kalitesi Ölçüm Raporu

R phase harmonics



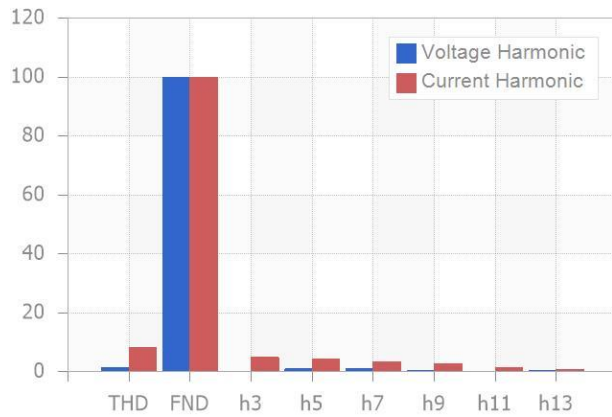
Item	Voltage [%]	Current [%]
THD	1,51	6,84
FND	100,00	100,00
h3	0,26	3,70
h5	0,94	4,16
h7	1,04	3,04
h9	0,43	2,01
h11	0,02	0,85
h13	0,21	0,62

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,49	4,15
FND	100,00	100,00
h3	0,49	1,94
h5	0,83	2,61
h7	1,03	2,38
h9	0,38	0,48
h11	0,02	0,54
h13	0,18	0,14

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,53	8,11
FND	100,00	100,00
h3	0,14	4,90
h5	0,92	4,26
h7	1,11	3,45
h9	0,34	2,77
h11	0,11	1,53
h13	0,27	0,87

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	394,88 [V]	1,55	8,00	0,26	0,96	1,06	0,43	0,02	0,22
Current	52,63 [A]	6,89	8,00	3,75	4,25	3,02	2,01	0,84	0,58

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

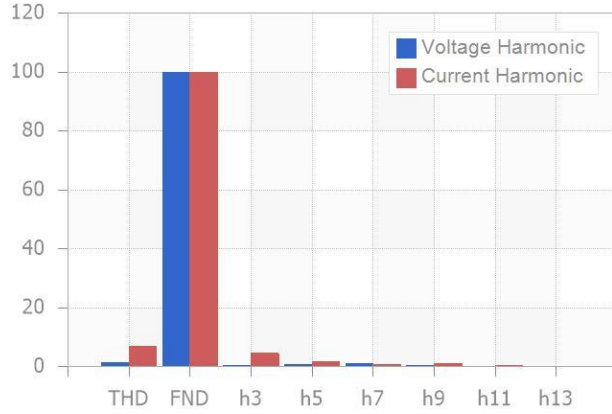
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

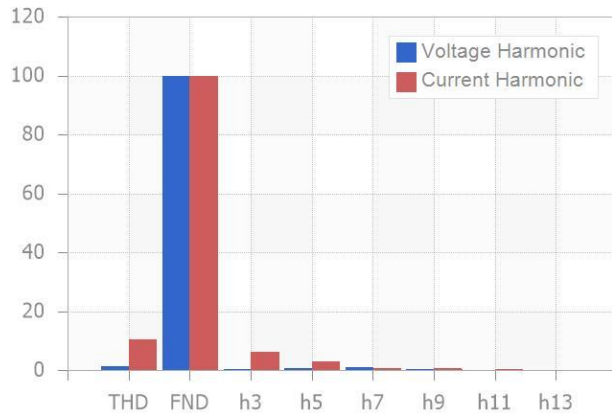
Fen Fakültesi B Blok Güç Kalitesi Ölçüm Raporu

R phase harmonics



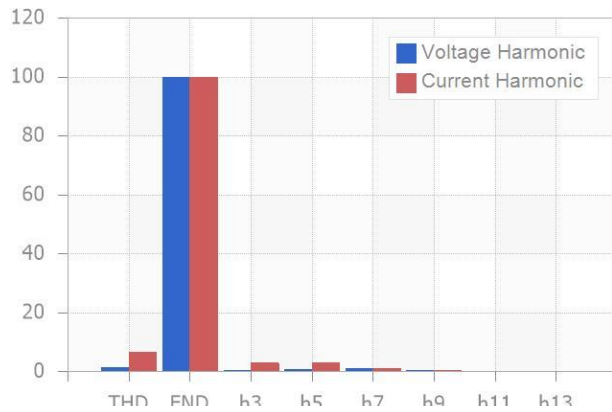
Item	Voltage [%]	Current [%]
THD	1,46	6,85
FND	100,00	100,00
h3	0,47	4,55
h5	0,65	1,54
h7	1,12	0,82
h9	0,40	1,03
h11	0,10	0,41
h13	0,17	0,14

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,43	10,44
FND	100,00	100,00
h3	0,27	6,30
h5	0,70	2,86
h7	1,08	0,59
h9	0,48	0,63
h11	0,03	0,35
h13	0,19	0,13

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,43	6,46
FND	100,00	100,00
h3	0,27	2,90
h5	0,70	3,00
h7	1,08	0,90
h9	0,48	0,34
h11	0,03	0,05
h13	0,19	0,16

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	394,52 [V]	1,42	8,00	0,44	0,54	1,12	0,42	0,09	0,18
Current	70,13 [A]	5,76	8,00	5,86	1,99	0,71	0,78	0,37	0,16

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

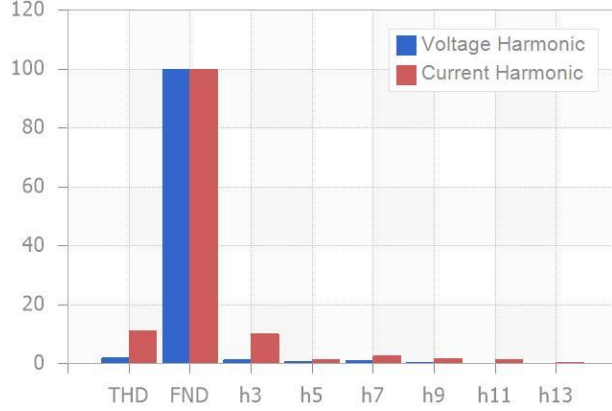
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

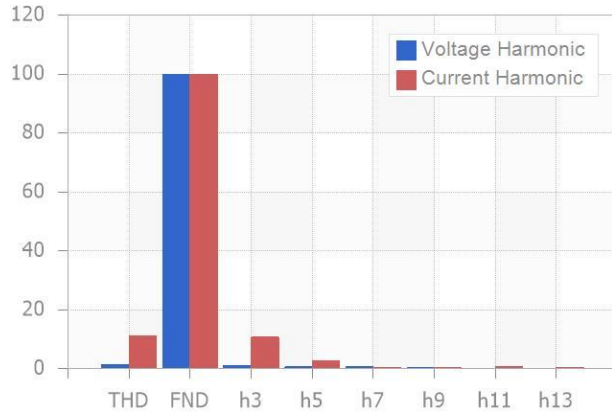
Hemşirelik Fakültesi Güç Kalitesi Ölçüm Raporu

R phase harmonics



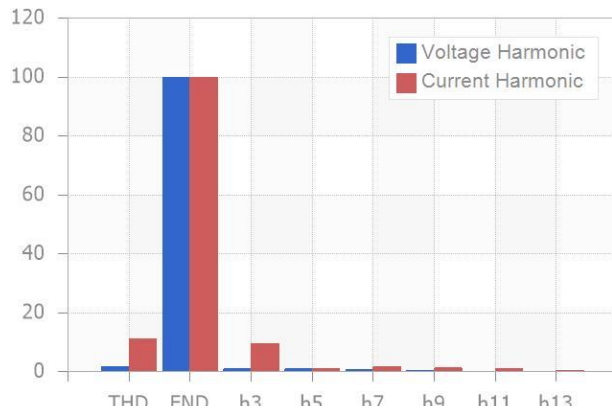
Item	Voltage [%]	Current [%]
THD	1,90	10,97
FND	100,00	100,00
h3	1,31	10,08
h5	0,88	1,44
h7	0,89	2,64
h9	0,41	1,77
h11	0,05	1,33
h13	0,15	0,55

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,51	11,17
FND	100,00	100,00
h3	1,11	10,66
h5	0,58	2,77
h7	0,65	0,43
h9	0,37	0,35
h11	0,14	0,62
h13	0,05	0,43

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,68	11,25
FND	100,00	100,00
h3	0,92	9,63
h5	0,90	1,09
h7	0,87	1,55
h9	0,42	1,22
h11	0,10	0,96
h13	0,08	0,47

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	398,30 [V]	1,88	8,00	1,27	0,85	0,90	0,43	0,03	0,16
Current	88,78 [A]	8,74	8,00	8,65	0,28	1,51	1,10	0,97	0,35

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

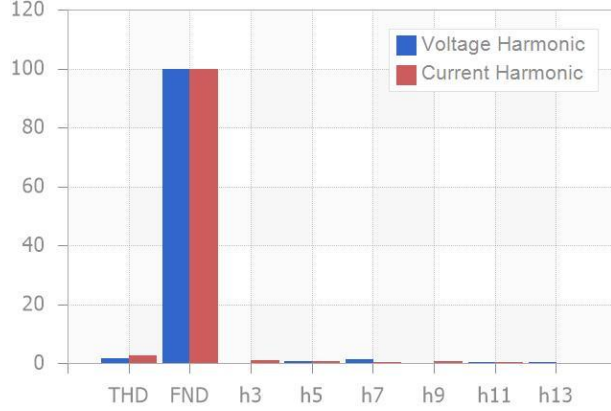
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

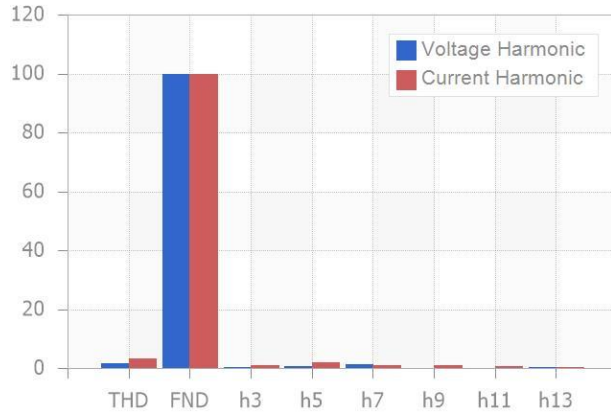
Tıp Fakültesi B Blok Güç Kalitesi Ölçüm Raporu

R phase harmonics



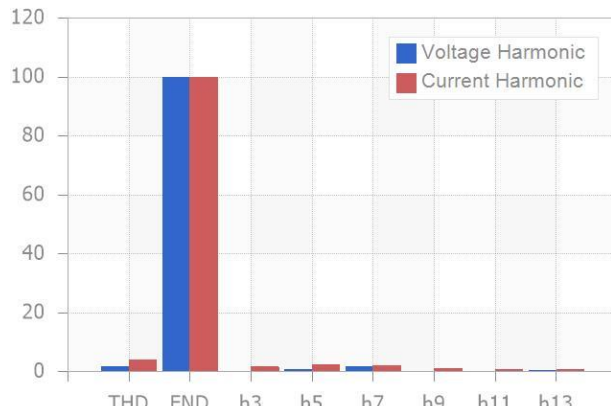
Item	Voltage [%]	Current [%]
THD	1,62	2,57
FND	100,00	100,00
h3	0,04	1,06
h5	0,63	0,70
h7	1,35	0,26
h9	0,13	0,71
h11	0,26	0,36
h13	0,27	0,11

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,70	3,45
FND	100,00	100,00
h3	0,24	1,12
h5	0,69	2,06
h7	1,42	1,15
h9	0,17	1,14
h11	0,23	0,60
h13	0,29	0,31

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,86	4,06
FND	100,00	100,00
h3	0,08	1,61
h5	0,75	2,31
h7	1,55	2,10
h9	0,18	1,01
h11	0,21	0,83
h13	0,33	0,60

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	397,61 [V]	1,65	8,00	0,05	0,66	1,36	0,12	0,26	0,30
Current	58,00 [A]	1,30	8,00	0,63	0,84	0,59	0,77	0,57	0,24

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

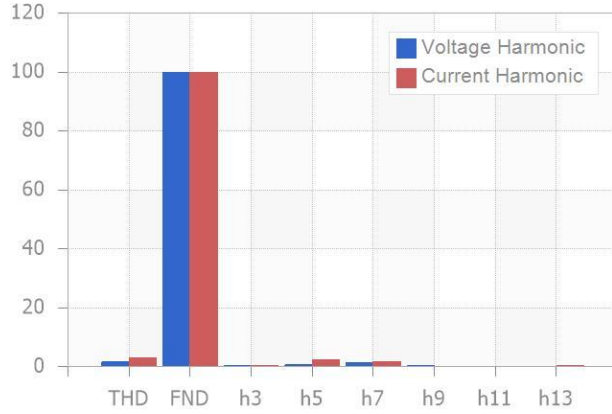
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

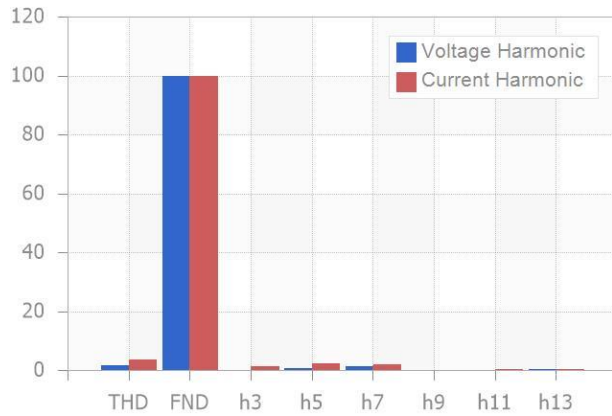
Tıp Fakültesi E Blok Güç Kalitesi Ölçüm Raporu

R phase harmonics



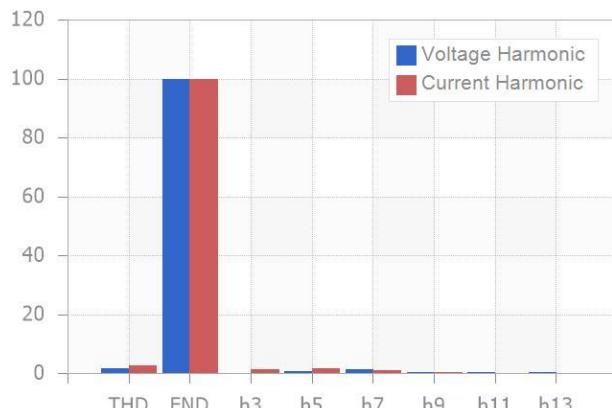
Item	Voltage [%]	Current [%]
THD	1,56	3,07
FND	100,00	100,00
h3	0,32	0,34
h5	0,57	2,40
h7	1,27	1,81
h9	0,26	0,15
h11	0,21	0,15
h13	0,21	0,33

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,78	3,49
FND	100,00	100,00
h3	0,15	1,46
h5	0,68	2,42
h7	1,47	1,94
h9	0,22	0,15
h11	0,18	0,24
h13	0,29	0,29

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,73	2,60
FND	100,00	100,00
h3	0,19	1,44
h5	0,62	1,75
h7	1,38	1,08
h9	0,27	0,54
h11	0,31	0,18
h13	0,27	0,18

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	390,58 [V]	1,61	8,00	0,30	0,54	1,33	0,26	0,23	0,23
Current	143,51 [A]	3,10	8,00	0,26	2,42	1,86	0,12	0,19	0,32

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

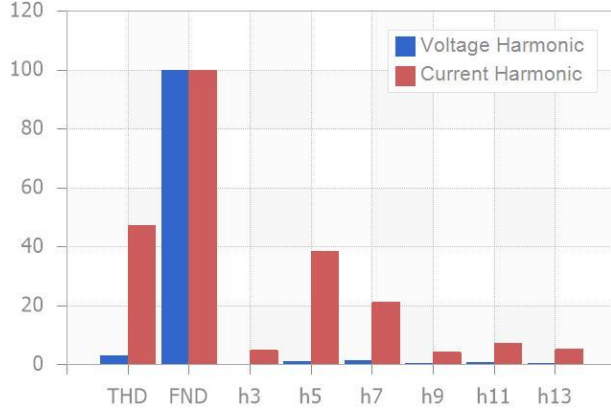
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

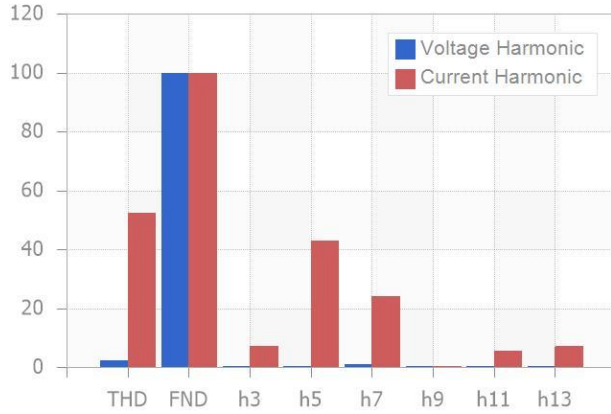
Edebiyat Fakültesi TR 1 ADP Güç Kalitesi Ölçüm Raporu

R phase harmonics



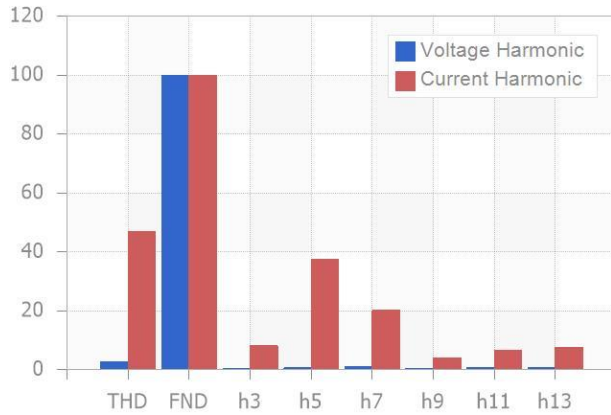
Item	Voltage [%]	Current [%]
THD	2,90	47,06
FND	100,00	100,00
h3	0,22	4,81
h5	1,16	38,53
h7	1,40	21,11
h9	0,52	4,19
h11	0,76	7,31
h13	0,41	5,12

S phase harmonics



Item	Voltage [%]	Current [%]
THD	2,23	52,34
FND	100,00	100,00
h3	0,31	7,29
h5	0,55	42,86
h7	1,02	24,15
h9	0,24	0,47
h11	0,56	5,74
h13	0,39	7,20

T phase harmonics



Item	Voltage [%]	Current [%]
THD	2,70	46,96
FND	100,00	100,00
h3	0,28	8,12
h5	0,59	37,44
h7	1,03	20,15
h9	0,41	4,13
h11	0,78	6,58
h13	0,67	7,71

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	399,65 [V]	3,20	8,00	0,23	1,25	1,45	0,52	0,87	0,46
Current	196,73 [A]	41,79	8,00	5,37	37,59	19,79	3,98	7,61	5,07

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

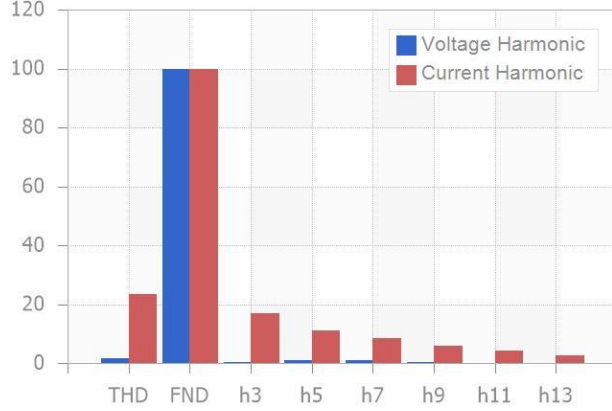
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

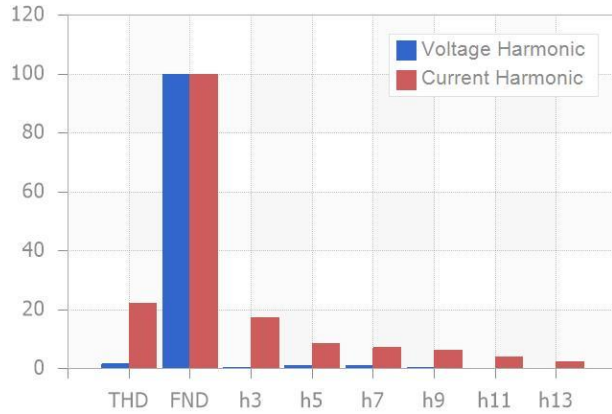
Eğitim Fakültesi Güç Kalitesi Ölçüm Raporu

R phase harmonics



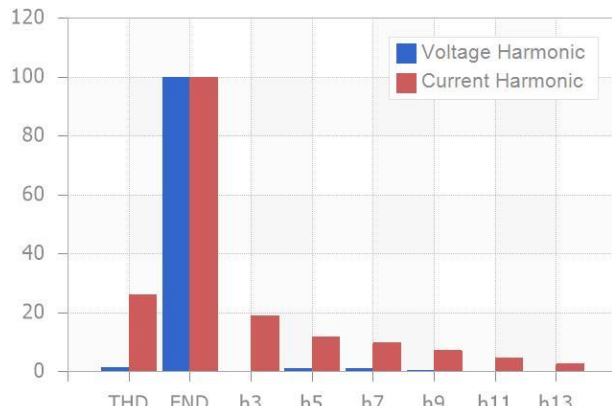
Item	Voltage [%]	Current [%]
THD	1,58	23,57
FND	100,00	100,00
h3	0,31	16,95
h5	1,15	11,08
h7	0,93	8,56
h9	0,33	6,00
h11	0,15	4,26
h13	0,12	2,70

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,57	22,18
FND	100,00	100,00
h3	0,51	17,26
h5	1,10	8,42
h7	0,90	7,08
h9	0,31	6,32
h11	0,12	4,10
h13	0,13	2,48

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,49	26,21
FND	100,00	100,00
h3	0,17	19,06
h5	1,08	11,76
h7	0,92	9,74
h9	0,34	7,12
h11	0,07	4,47
h13	0,12	2,61

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	402,57 [V]	1,56	8,00	0,30	1,15	0,93	0,31	0,10	0,14
Current	50,19 [A]	24,12	8,00	34,54	24,68	19,02	14,16	10,64	7,21

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

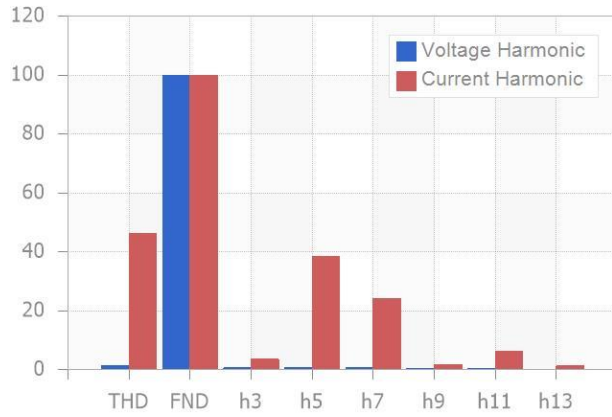
Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

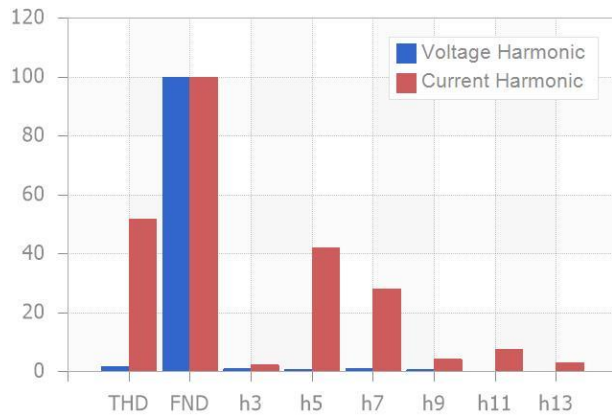
Yabancı Diller Yüksek Okulu Güç Kalitesi Ölçüm Raporu

R phase harmonics



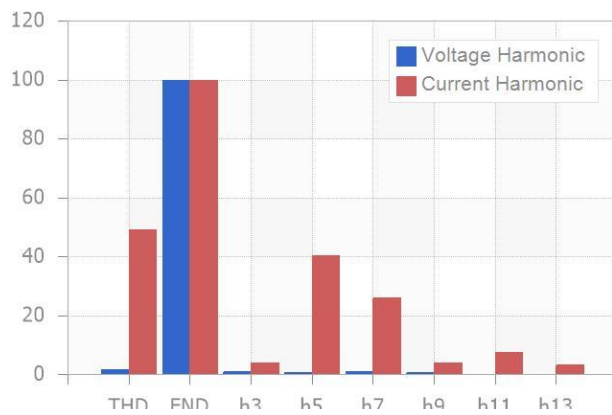
Item	Voltage [%]	Current [%]
THD	1,34	46,38
FND	100,00	100,00
h3	0,61	3,53
h5	0,76	38,54
h7	0,66	24,26
h9	0,52	1,74
h11	0,30	6,36
h13	0,09	1,29

S phase harmonics



Item	Voltage [%]	Current [%]
THD	1,78	51,83
FND	100,00	100,00
h3	1,02	2,23
h5	0,69	42,10
h7	1,03	28,18
h9	0,70	4,22
h11	0,22	7,69
h13	0,10	3,00

T phase harmonics



Item	Voltage [%]	Current [%]
THD	1,78	49,27
FND	100,00	100,00
h3	1,02	4,08
h5	0,69	40,40
h7	1,03	25,92
h9	0,70	4,09
h11	0,22	7,57
h13	0,10	3,22

Harmonic Measurement Result Table

Item	Max	THD [%] / TDD [%]	Limit [%]	Harmonics [%]					
				3	5	7	9	11	13
Voltage (L-L)	405,56 [V]	1,47	8,00	0,64	0,96	0,56	0,55	0,31	0,08
Current	47,23 [A]	51,62	8,00	4,19	49,02	33,64	1,48	5,51	4,73

Harmonic Judgement Criteria

Harmonic voltage criteria presented in IEEE 519-2014

Bus voltage V at PCC	Individual Voltage Distortion [%]	Total Voltage Distortion THD [%]
$U_{BUS} \leq 1,00 \text{ kV}$	5,00	8,00
$1,00 \text{ kV} < U_{BUS} \leq 69,00 \text{ kV}$	3,00	5,00
$69,00 \text{ kV} < U_{BUS} \leq 161,00 \text{ kV}$	1,50	2,50
$161,00 \text{ kV} < U_{BUS}$	1,00	1,50

Harmonic current criteria presented in IEEE 519-2014

SCR = I_{sc}/I_L	Below 11th	11th - 17th	17th - 23rd	23rd - 35th	Over 35th	ITDD [%]
< 20	4,0	2,0	1,5	0,6	0,3	5,0
20 - 50	7,0	3,5	2,5	1,0	0,5	8,0
50 - 100	10,0	4,5	4,0	1,5	0,7	12,0
100 - 1000	12,0	5,5	5,0	2,0	1,0	15,0
> 1000	15,0	7,0	6,0	2,5	1,4	20,0

