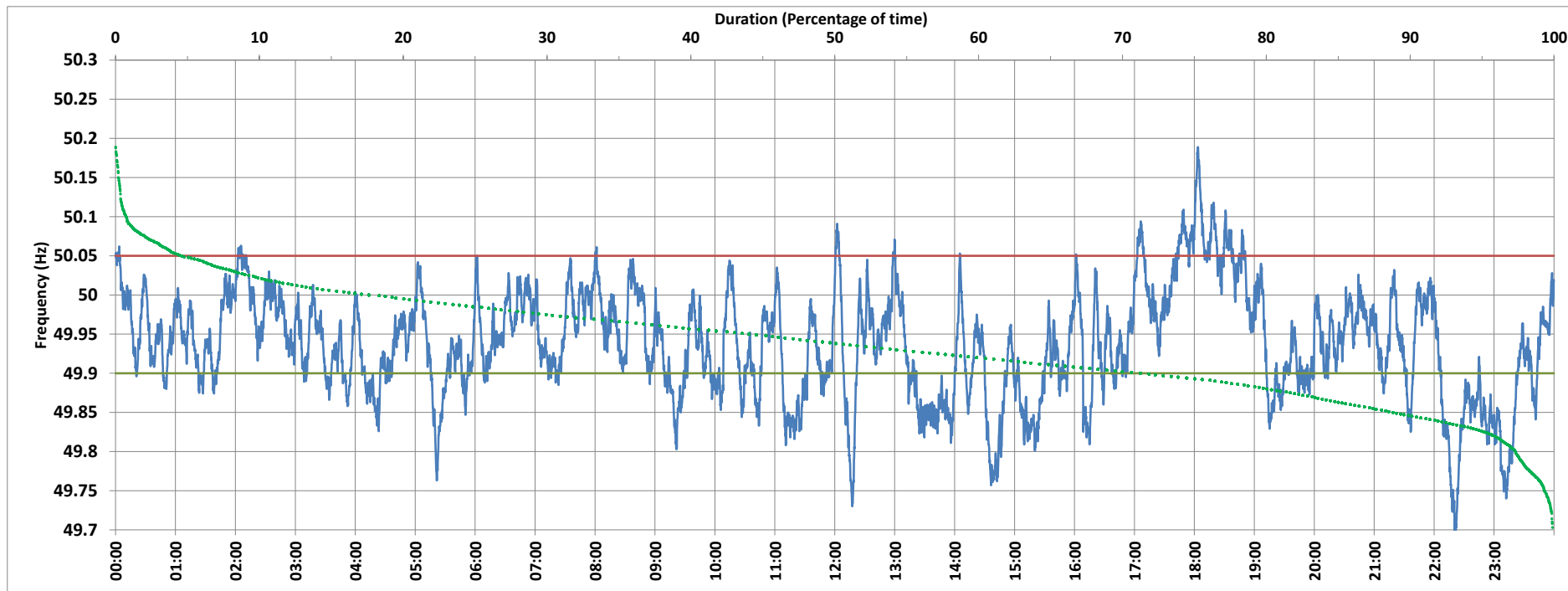


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



VIJAYAWADA:Frequency

National Grid Frequency Profile for 11-May-2018



<49.7	<49.90	<49.97	49.7-49.8	49.8-49.9	49.9-50.0	50.0-50.1	50.1-50.2	49.90-50.05	49.7-50.2	49.97-50.03	50.05-50.1	>50	>50.03	>50.05	>50.2
0.10	28.17	66.76	2.57	25.50	53.51	17.56	0.76	67.22	99.90	25.01	4.05	17.58	8.23	4.61	0.00

Average Frequency :	49.937	Frequency Variation Index :	0.088	Standard Deviation :	0.069	Mileage	44.64
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Instantaneous Frequency		
Max	50.189	18:03:30
Min	49.686	22:21:10

15 minute Average Frequency		
Max	50.102	18:15:00
Min	49.768	22:30:00

No. of excursions above 50.03 Hz	41
No. of excursions below 49.97 Hz	104
No. of excursions above 50.00 Hz	69
No. of excursions below 50.00 Hz	71

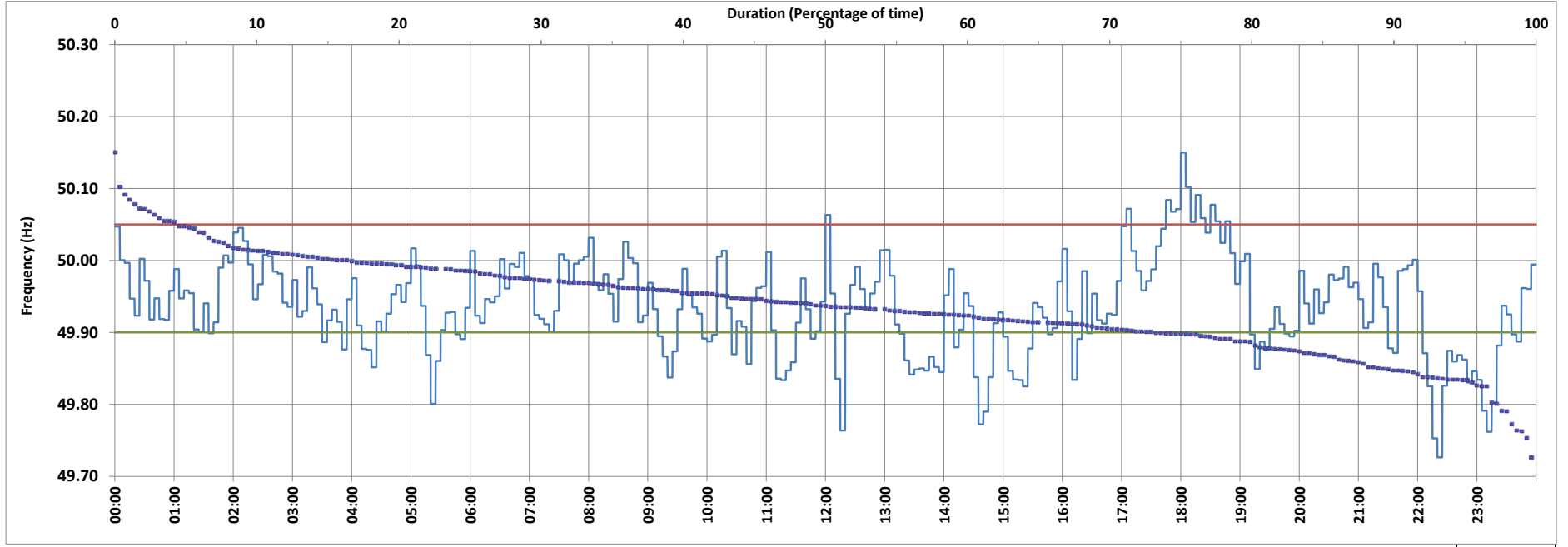
% time <49.95	55.46
% time between 49.95 to 50.05	39.93

Average time freq remains below 49.97 per excursion	0:09:15	Average time frequency remains above 50.03 per excursion	0:02:53
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VIJAYAWADA:Frequency

5 Min. Average Frequency Profile for 11-May-2018



<49.7	<49.90	<49.97	49.7-49.8	49.8-49.9	49.9-50.0	50.0-50.1	50.1-50.2	49.90-50.05	49.7-50.2	49.97-50.03	50.05-50.1	>50	>50.03	>50.05	>50.2
0.00	26.74	68.06	2.43	24.31	56.60	15.97	0.69	68.75	100.00	25.00	3.82	16.67	6.94	4.51	0.00

Average Frequency : 49.937

Mileage 10.2773

Instantaneous Frequency		
Max	50.189	18:03:30
Min	49.686	22:21:10

Based on 5 minute Average Frequency			
Max	50.150	18:05:00	
Min	49.726	22:30:00	

No. of excursions above 50.03 Hz	7
No. of excursions below 49.97 Hz	33
No. of excursions above 50.00 Hz	21
No. of excursions below 50.00 Hz	21

% time <49.95	56.60
% time between 49.95 to 50.05	38.89

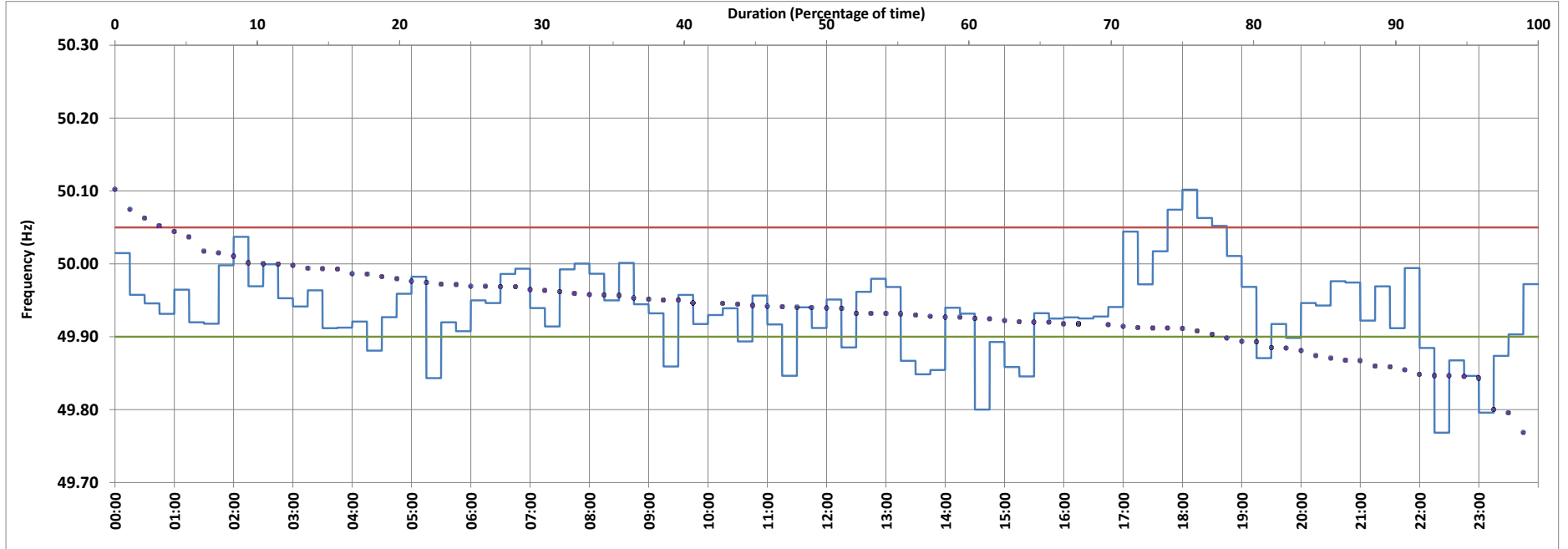
NOTE: All calculations except Instantaneous Max/Min based on 5 minute average frequency

POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



VIJAYAWADA:Frequency

15 Min. Average Frequency Profile for 11-May-2018



<49.7	<49.90	<49.97	49.7-49.8	49.8-49.9	49.9-50.0	50.0-50.1	50.1-50.2	49.90-50.05	49.7-50.2	49.97-50.03	50.05-50.1	>50	>50.03	>50.05	>50.2	
0.00	21.88	75.00	2.08	19.79	66.67	10.42	1.04	73.96	100.00	18.75	3.13	11.46	6.25	4.17	0.00	

Average Frequency : 49.937

Mileage 4.2093

Instantaneous Frequency		
Max	50.189	18:03:30
Min	49.686	22:21:10

Based on 15 minute Average Frequency			
Max	50.102	18:15:00	
Min	49.768	22:30:00	

No. of excursions above 50.03 Hz	3
No. of excursions below 49.97 Hz	11
No. of excursions above 50.00 Hz	6
No. of excursions below 50.00 Hz	6

% time <49.95	61.46
% time between 49.95 to 50.05	34.38

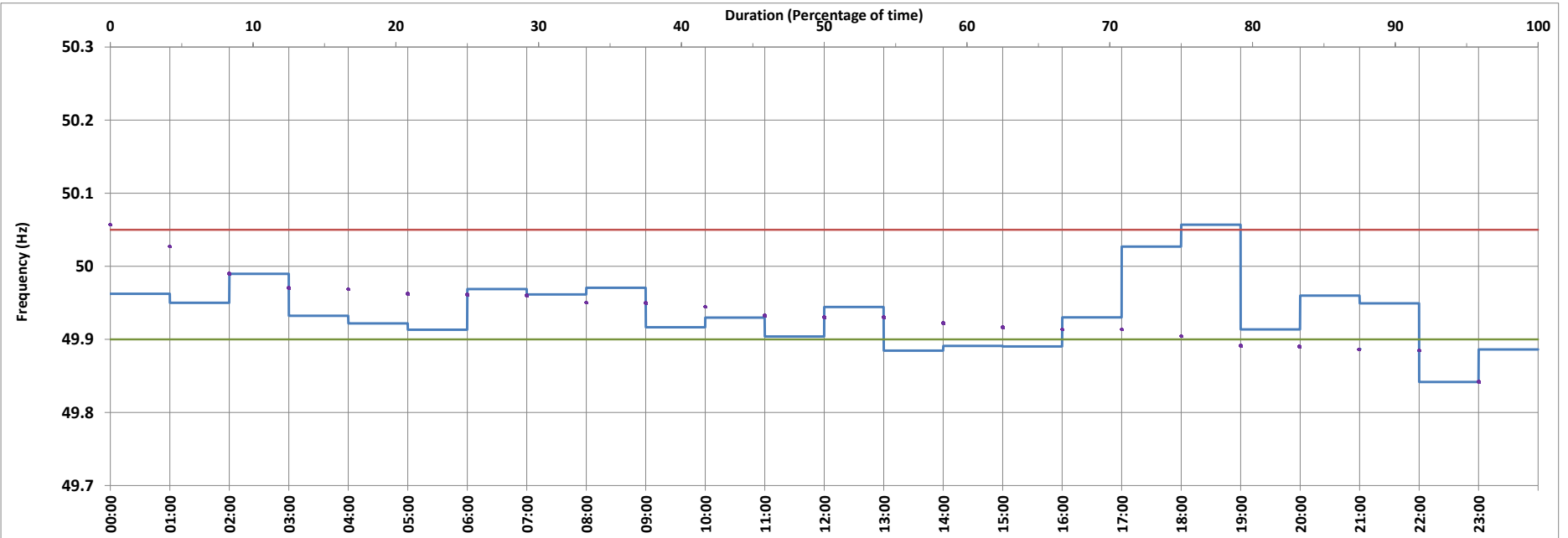
NOTE: All calculations except Instantaneous Max/Min based on 15 minute average frequency

POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



VIJAYAWADA:Frequency

Hourly Average Frequency Profile for 11-May-2018



<49.7	<49.90	<49.97	49.7-49.8	49.8-49.9	49.9-50.0	50.0-50.1	50.1-50.2	49.90-50.05	49.7-50.2	49.97-50.03	50.05-50.1	>50	>50.03	>50.05	>50.2	
0.00	20.83	83.33	0.00	20.83	70.83	8.33	0.00	75.00	100.00	12.50	4.17	8.33	4.17	4.17	0.00	

Average Frequency :	49.937
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Mileage	0.9197
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Instantaneous Frequency		
Max	50.189	18:03:30
Min	49.686	22:21:10

Based on an hour Average Frequency			
Max	50.057	19:00:00	
Min	49.842	23:00:00	

No. of excursions above 50.03 Hz	1
No. of excursions below 49.97 Hz	4
No. of excursions above 50.00 Hz	1
No. of excursions below 50.00 Hz	2

% time <49.95	62.50
% time between 49.95 to 50.05	33.33

NOTE: All calculations except Instantaneous Max/Min based on an hour average frequency