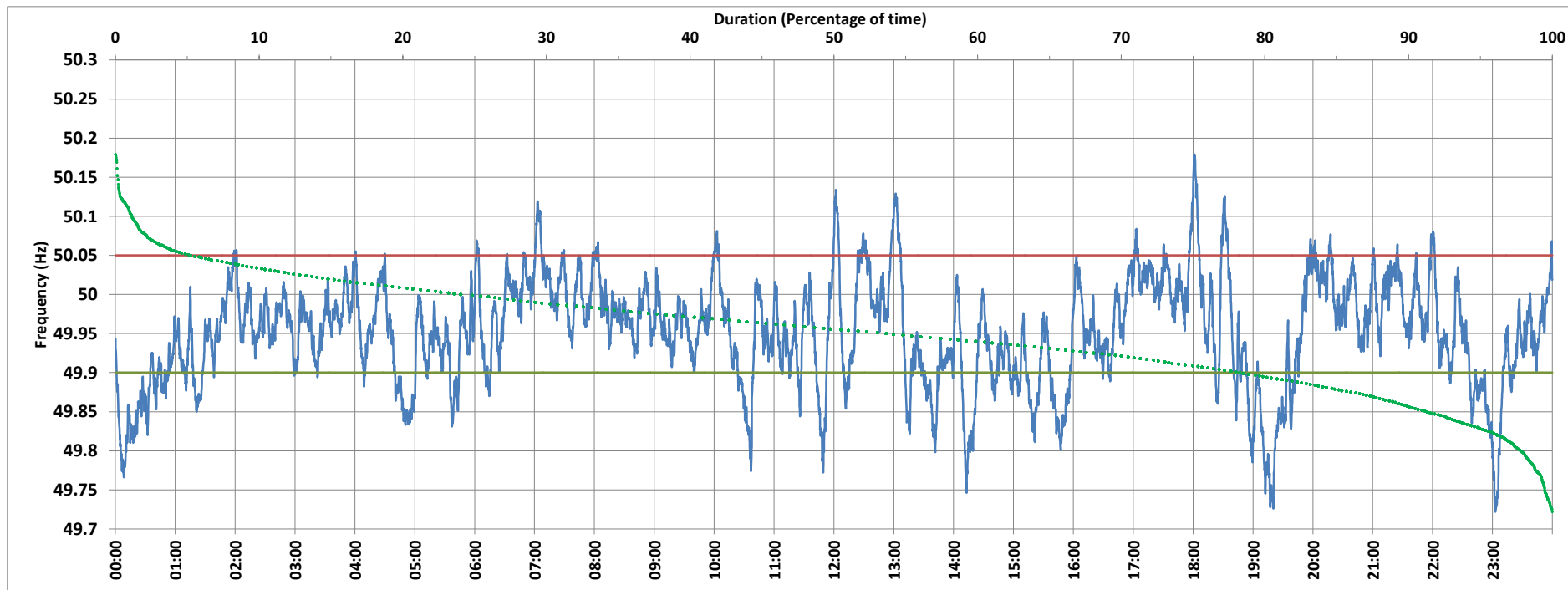


POWER SYSTEM OPERATION CORPORATION LIMITED  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



SRIPERUMBUDUR:Frequency

National Grid Frequency Profile for 17-Apr-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	21.52	58.47	2.18	19.34	53.67	23.66	1.16	73.24	100.00	30.44	4.35	24.03	11.09	5.24	0.00

Average Frequency :	49.951	Frequency Variation Index :	0.071	Standard Deviation :	0.069	Mileage	45.49
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Instantaneous Frequency		
Max	50.179	18:00:40
Min	49.722	23:02:50

15 minute Average Frequency		
Max	50.056	7:15:00
Min	49.800	19:30:00

No. of excursions above 50.03 Hz	69
No. of excursions below 49.97 Hz	114
No. of excursions above 50.00 Hz	82
No. of excursions below 50.00 Hz	78

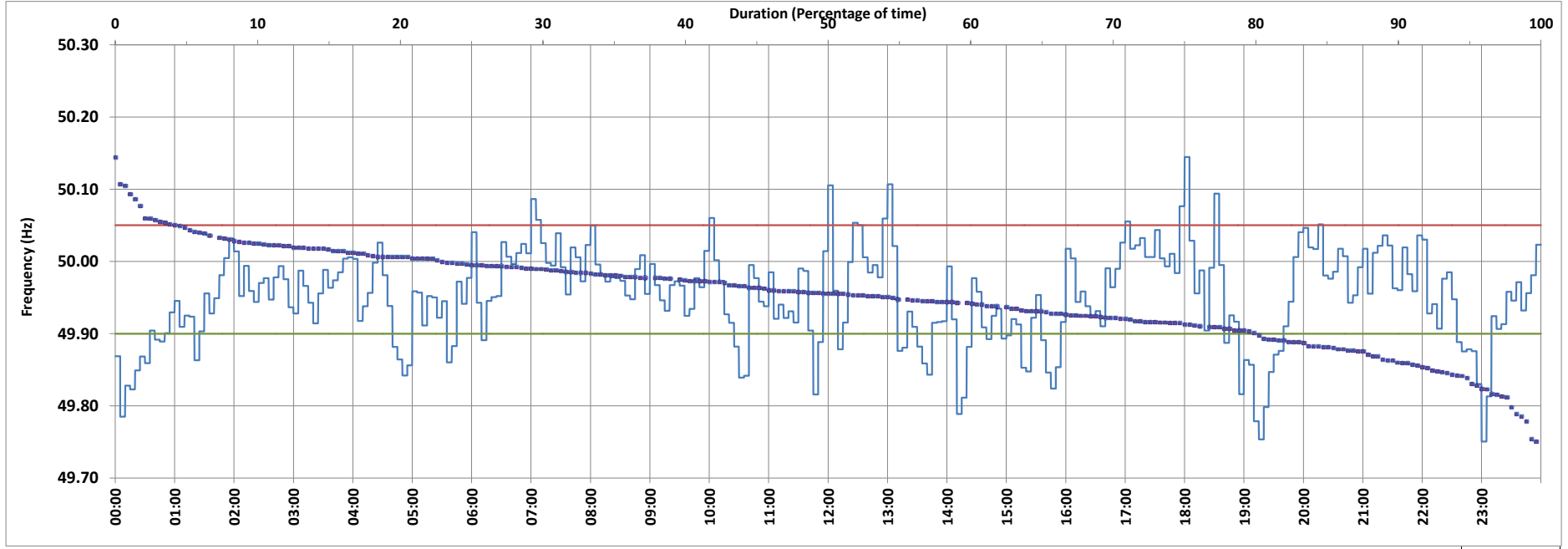
% time <49.95	45.87
% time between 49.95 to 50.05	48.89

Average time freq remains below 49.97 per excursion	0:07:23	Average time frequency remains above 50.03 per excursion	0:02:19
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SRIPERUMBUDUR:Frequency

5 Min. Average Frequency Profile for 17-Apr-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	19.79	56.94	2.08	17.71	57.29	21.88	1.04	75.69	100.00	34.72	3.47	22.92	8.33	4.51	0.00

Average Frequency : 49.951

Mileage 10.6867

Instantaneous Frequency		
Max	50.179	18:00:40
Min	49.722	23:02:50

Based on 5 minute Average Frequency			
Max	50.145	18:05:00	
Min	49.751	23:10:00	

No. of excursions above 50.03 Hz	18
No. of excursions below 49.97 Hz	37
No. of excursions above 50.00 Hz	26
No. of excursions below 50.00 Hz	26

% time <49.95	45.49
% time between 49.95 to 50.05	50.00

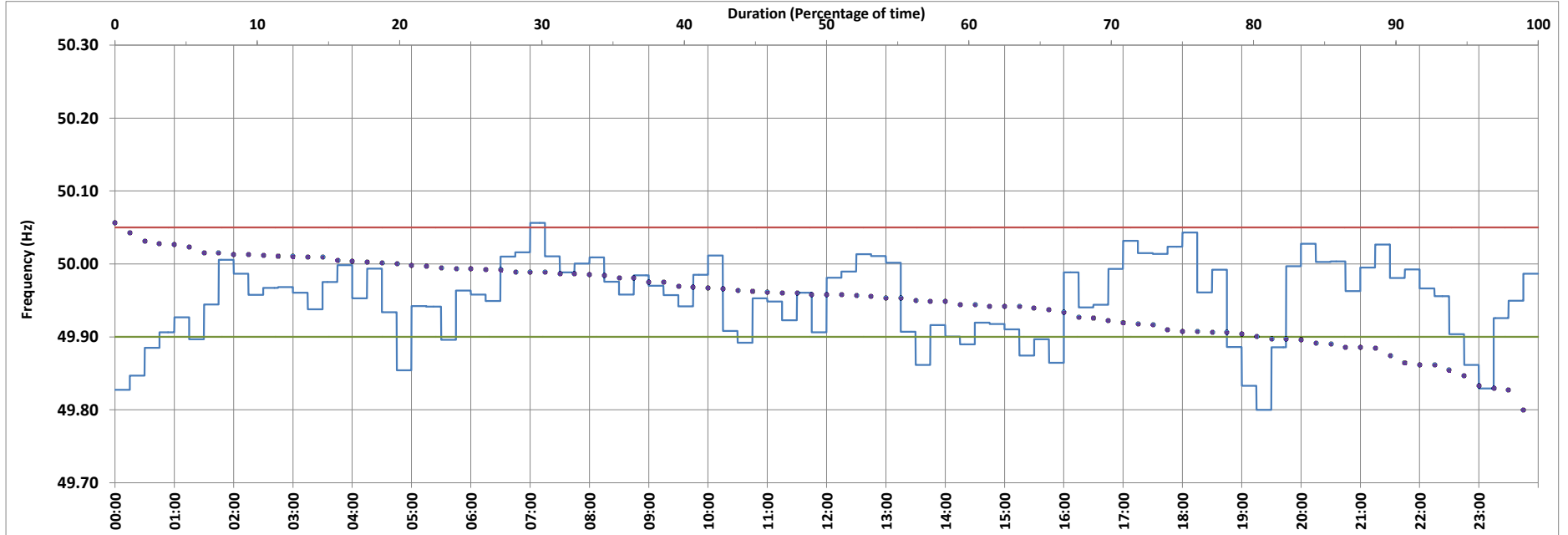
NOTE: All calculations except Instantaneous Max/Min based on 5 minute average frequency

POWER SYSTEM OPERATION CORPORATION LIMITED  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



SRIPERUMBUDUR:Frequency

15 Min. Average Frequency Profile for 17-Apr-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	18.75	60.42	1.04	17.71	60.42	20.83	0.00	80.21	100.00	36.46	1.04	20.83	3.13	1.04	0.00	

Average Frequency : 49.951

Mileage 3.3424

Instantaneous Frequency		
Max	50.179	18:00:40
Min	49.722	23:02:50

Based on 15 minute Average Frequency			
Max	50.056	7:15:00	
Min	49.800	19:30:00	

No. of excursions above 50.03 Hz	3
No. of excursions below 49.97 Hz	13
No. of excursions above 50.00 Hz	8
No. of excursions below 50.00 Hz	9

% time <49.95	43.75
% time between 49.95 to 50.05	55.21

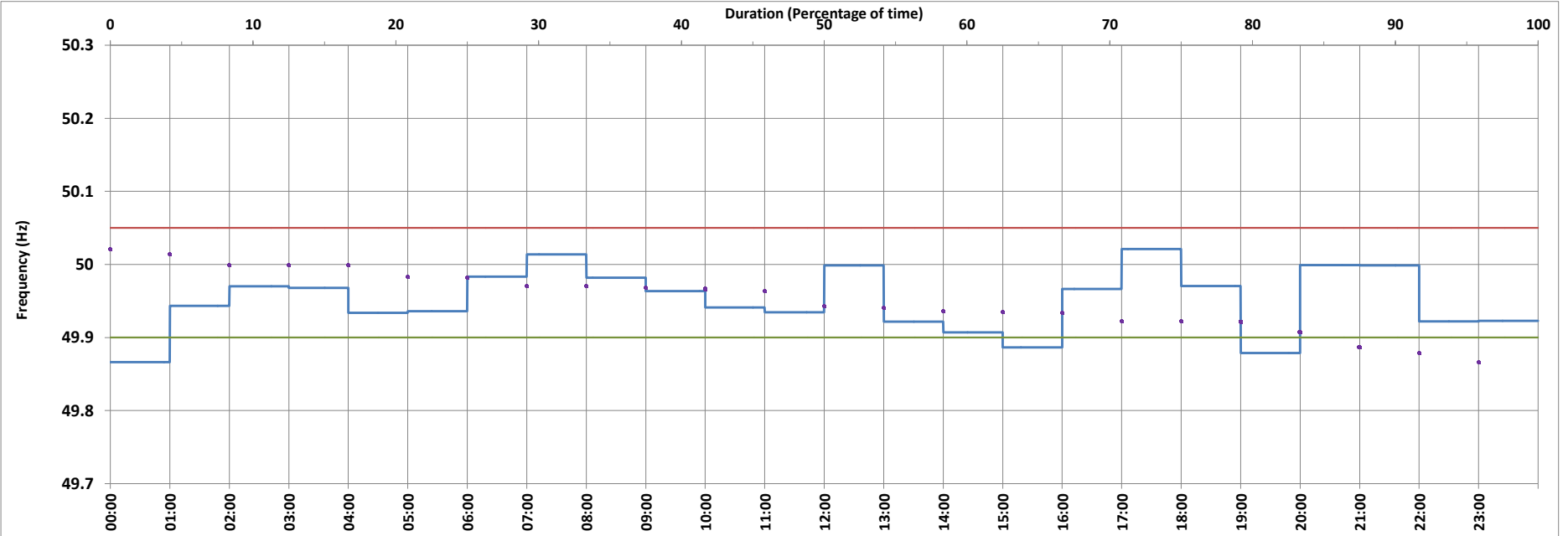
NOTE: All calculations except Instantaneous Max/Min based on 15 minute average frequency

POWER SYSTEM OPERATION CORPORATION LIMITED  
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



SRIPERUMBUDUR:Frequency

Hourly Average Frequency Profile for 17-Apr-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	12.50	62.50	0.00	12.50	79.17	8.33	0.00	87.50	100.00	37.50	0.00	8.33	0.00	0.00	0.00	

Average Frequency : 49.951

Mileage 0.9515

Instantaneous Frequency		
Max	50.179	18:00:40
Min	49.722	23:02:50

Based on an hour Average Frequency			
Max	50.021	18:00:00	
Min	49.866	1:00:00	

No. of excursions above 50.03 Hz	0
No. of excursions below 49.97 Hz	6
No. of excursions above 50.00 Hz	2
No. of excursions below 50.00 Hz	3

% time <49.95	50.00
% time between 49.95 to 50.05	50.00

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