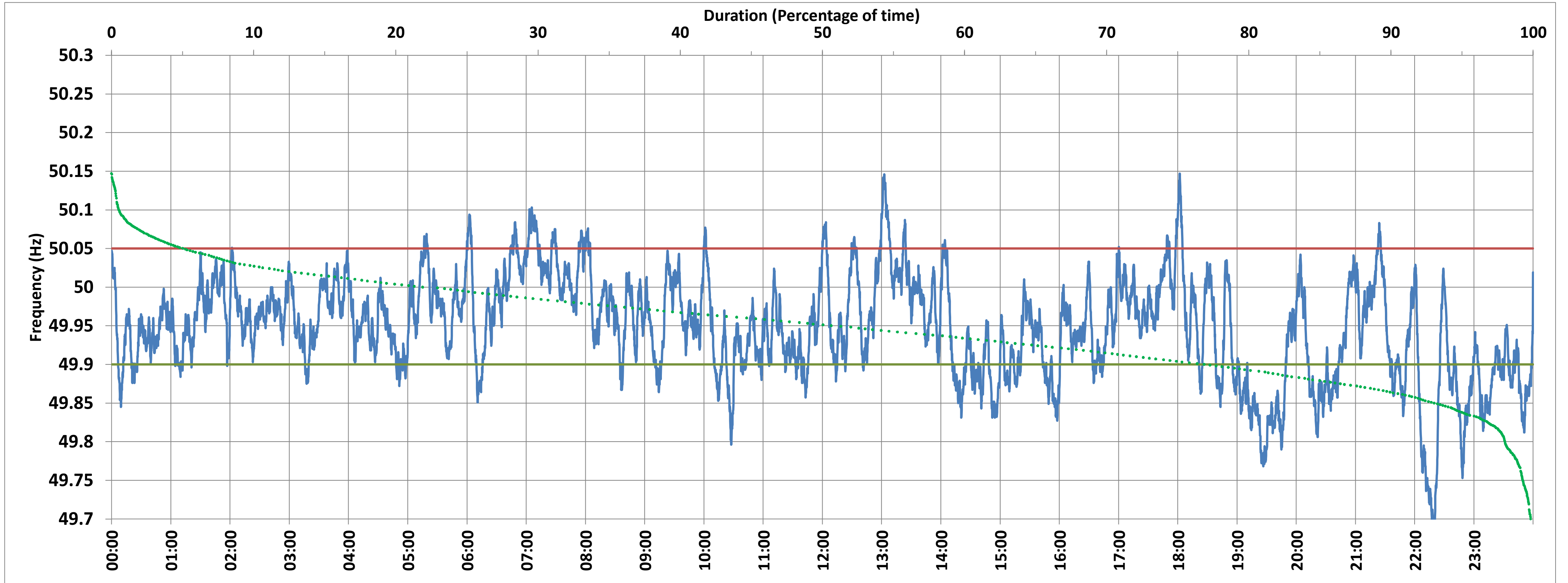




VIJAYAWADA:Frequency

National Grid Frequency Profile for 16-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
0.15	22.73	61.15	1.81	20.78	54.34	22.37	0.56	72.26	99.85	29.83	4.70	21.88	9.03	5.01	0.00

Average Frequency :	49.948	Frequency Variation Index :	0.071	Standard Deviation :	0.066	Mileage	45.52
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Instantaneous Frequency		
Max	50.147	18:01:50
Min	49.683	22:18:40

15 minute Average Frequency		
Max	50.067	7:15:00
Min	49.815	19:30:00

No. of excursions above 50.03 Hz	51
No. of excursions below 49.97 Hz	114
No. of excursions above 50.00 Hz	78
No. of excursions below 50.00 Hz	72

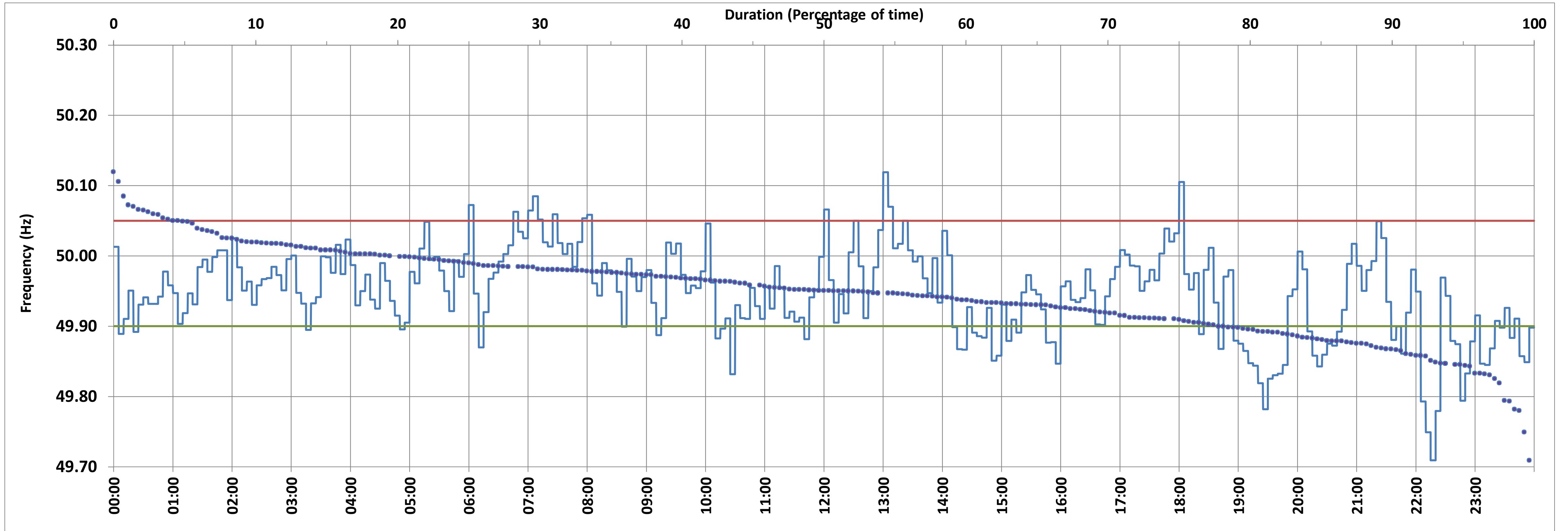
% time <49.95	48.70
% time between 49.95 to 50.05	46.28

Average time freq remains below 49.97 per excursion	0:07:43	Average time frequency remains above 50.03 per excursion	0:02:33
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VIJAYAWADA:Frequency

5 Min. Average Frequency Profile for 16-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	22.22	60.76	2.08	20.14	58.33	18.75	0.69	73.26	100.00	31.60	3.82	19.44	7.64	4.51	0.00

Average Frequency :	49.948
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Mileage	10.5452
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Instantaneous Frequency		
Max	50.147	18:01:50
Min	49.683	22:18:40

Based on 5 minute Average Frequency		
Max	50.119	13:05:00
Min	49.709	22:25:00

No. of excursions above 50.03 Hz	15
No. of excursions below 49.97 Hz	36
No. of excursions above 50.00 Hz	22
No. of excursions below 50.00 Hz	22

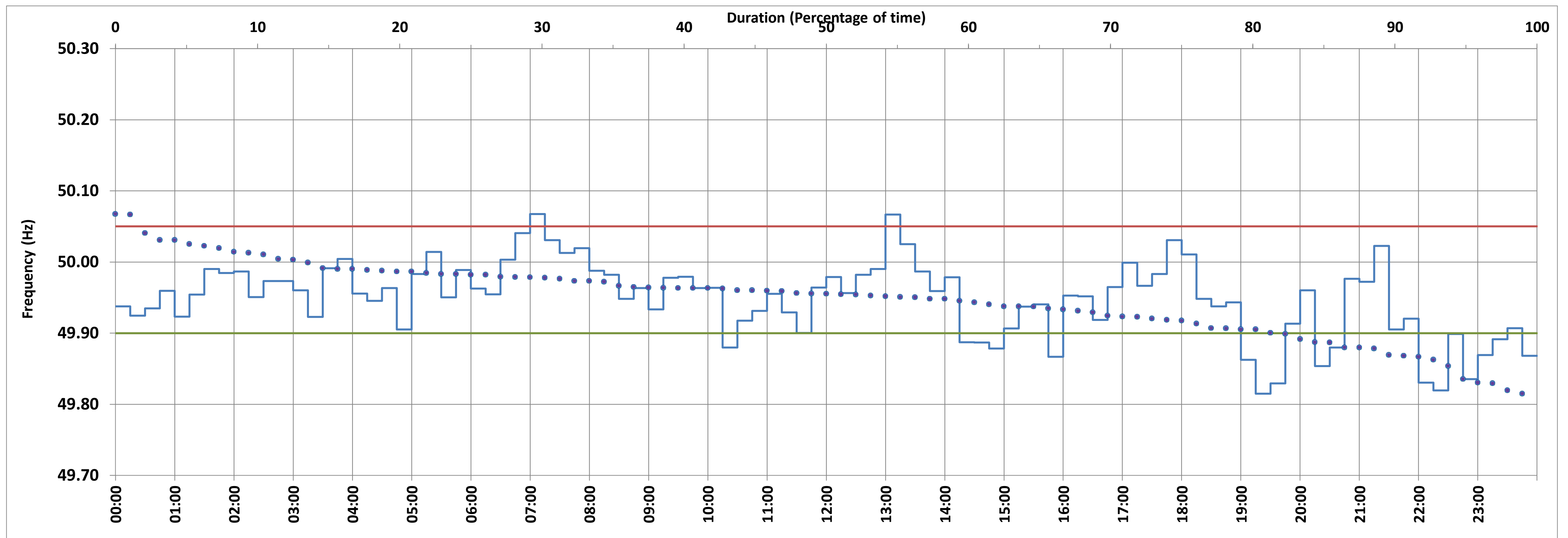
% time <49.95	48.26
% time between 49.95 to 50.05	47.22

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



VIJAYAWADA:Frequency

15 Min. Average Frequency Profile for 16-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	17.71	64.58	0.00	17.71	68.75	13.54	0.00	80.21	100.00	30.21	2.08	13.54	5.21	2.08	0.00	

Average Frequency :	49.948
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Mileage	3.3120
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Instantaneous Frequency		
Max	50.147	18:01:50
Min	49.683	22:18:40

Based on 15 minute Average Frequency			
Max	50.067	7:15:00	
Min	49.815	19:30:00	

No. of excursions above 50.03 Hz	3
No. of excursions below 49.97 Hz	14
No. of excursions above 50.00 Hz	6
No. of excursions below 50.00 Hz	7

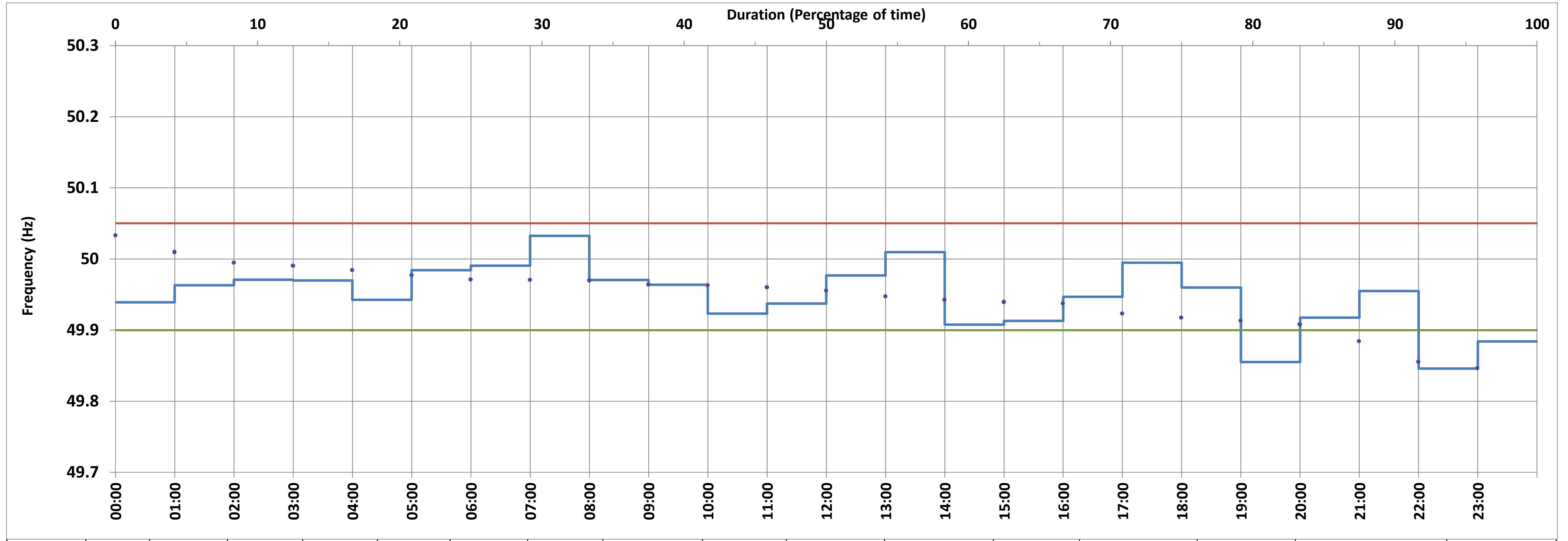
% time <49.95	42.71
% time between 49.95 to 50.05	55.21

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



VIJAYAWADA:Frequency

Hourly Average Frequency Profile for 16-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	66.67	0.00	12.50	79.17	8.33	0.00	87.50	100.00	29.17	0.00	8.33	4.17	0.00	0.00	

Average Frequency :	49.948
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Mileage	0.9214
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Instantaneous Frequency		
Max	50.147	18:01:50
Min	49.683	22:18:40

Based on an hour Average Frequency			
Max	50.033	8:00:00	
Min	49.846	23:00:00	

No. of excursions above 50.03 Hz	1
No. of excursions below 49.97 Hz	5
No. of excursions above 50.00 Hz	2
No. of excursions below 50.00 Hz	3

% time <49.95	45.83
% time between 49.95 to 50.05	54.17

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