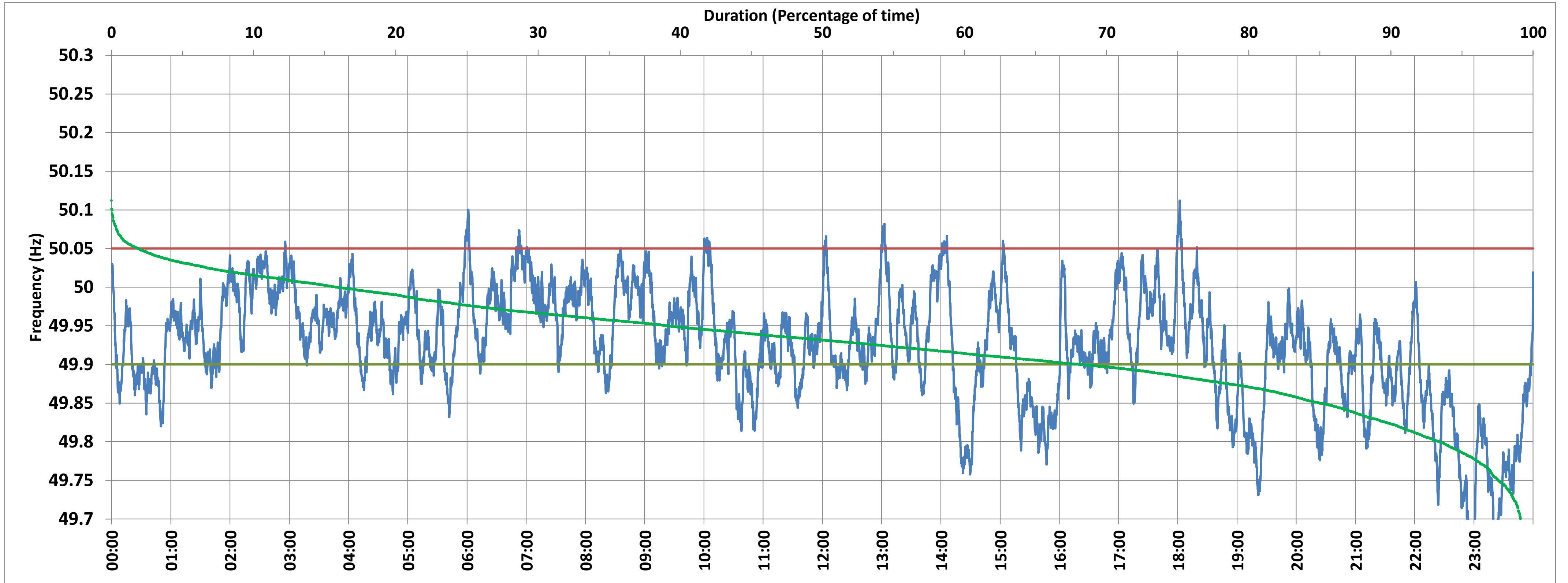




DURGAPUR:Frequency

National Grid Frequency Profile for 5-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
0.86	31.85	72.04	5.74	25.25	52.31	15.79	0.05	66.30	99.14	22.47	1.83	15.78	5.50	1.85	0.00

Average Frequency :	49.925	Frequency Variation Index :	0.113	Standard Deviation :	0.075	Mileage	44.30
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Instantaneous Frequency		
Max	50.112	18:01:50
Min	49.587	22:58:20

15 minute Average Frequency		
Max	50.036	7:00:00
Min	49.696	23:00:00

No. of excursions above 50.03 Hz	56
No. of excursions below 49.97 Hz	110
No. of excursions above 50.00 Hz	79
No. of excursions below 50.00 Hz	82

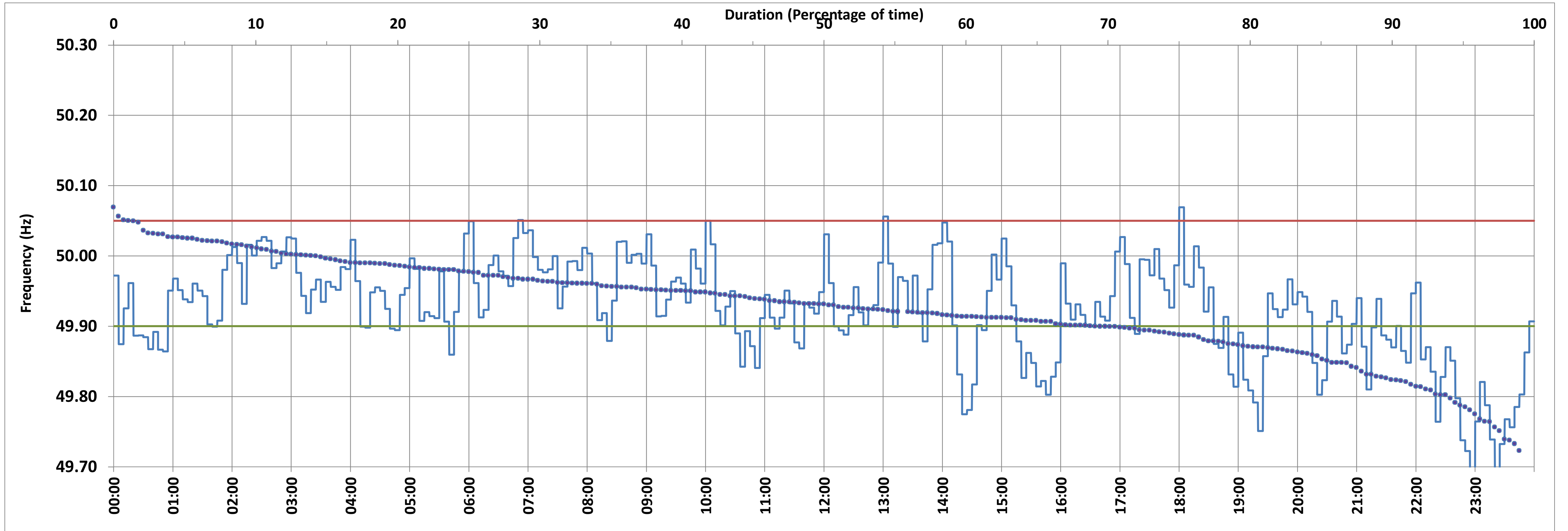
% time <49.95	60.89
% time between 49.95 to 50.05	37.26

Average time freq remains below 49.97 per excursion	0:09:26	Average time frequency remains above 50.03 per excursion	0:01:25
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DURGAPUR:Frequency

5 Min. Average Frequency Profile for 5-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
0.69	30.90	72.57	5.21	25.00	54.86	14.24	0.00	67.71	99.31	23.61	1.39	14.24	3.82	1.39	0.00

Average Frequency :	49.925
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Mileage	10.6052
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Instantaneous Frequency		
Max	50.112	18:01:50
Min	49.587	22:58:20

Based on 5 minute Average Frequency			
Max	50.069	18:05:00	
Min	49.628	23:05:00	

No. of excursions above 50.03 Hz	8
No. of excursions below 49.97 Hz	24
No. of excursions above 50.00 Hz	22
No. of excursions below 50.00 Hz	23

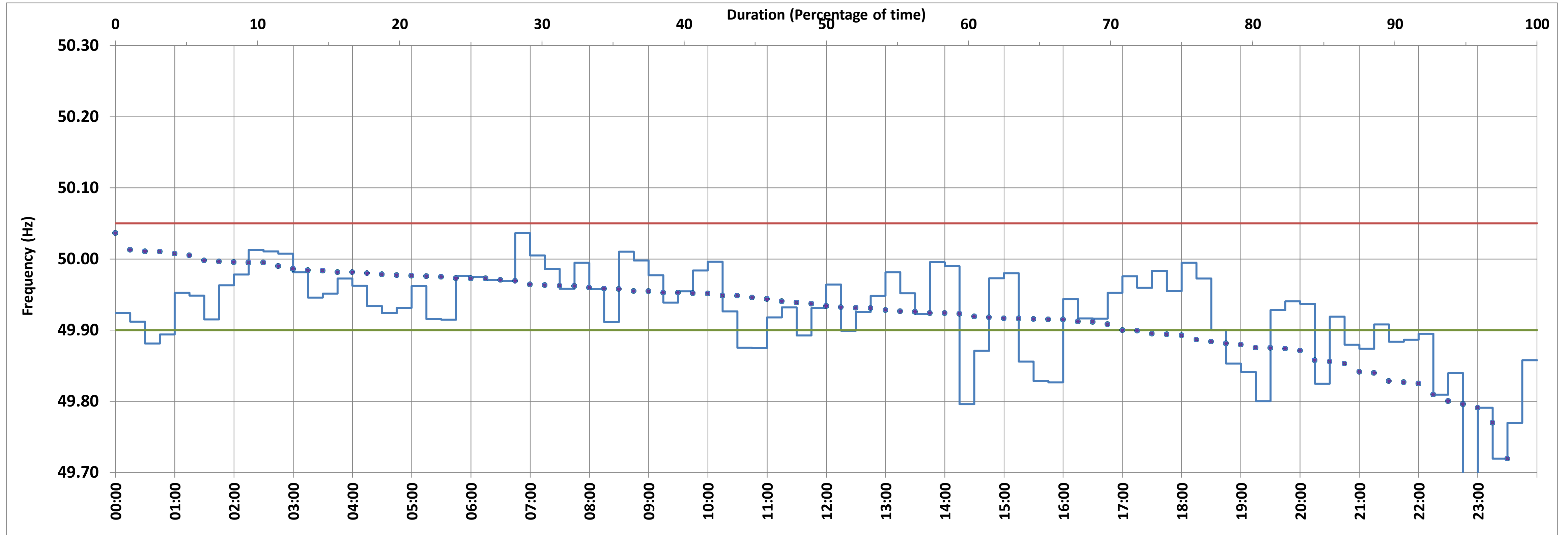
% time <49.95	59.03
% time between 49.95 to 50.05	39.58

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



DURGAPUR:Frequency

15 Min. Average Frequency Profile for 5-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	
1.04	29.17	71.88	4.17	23.96	64.58	6.25	0.00	70.83	98.96	27.08	0.00	6.25	1.04	0.00	0.00	

Average Frequency :	49.925
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Mileage	3.6835
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Instantaneous Frequency		
Max	50.112	18:01:50
Min	49.587	22:58:20

Based on 15 minute Average Frequency			
Max	50.036	7:00:00	
Min	49.696	23:00:00	

No. of excursions above 50.03 Hz	1
No. of excursions below 49.97 Hz	14
No. of excursions above 50.00 Hz	3
No. of excursions below 50.00 Hz	4

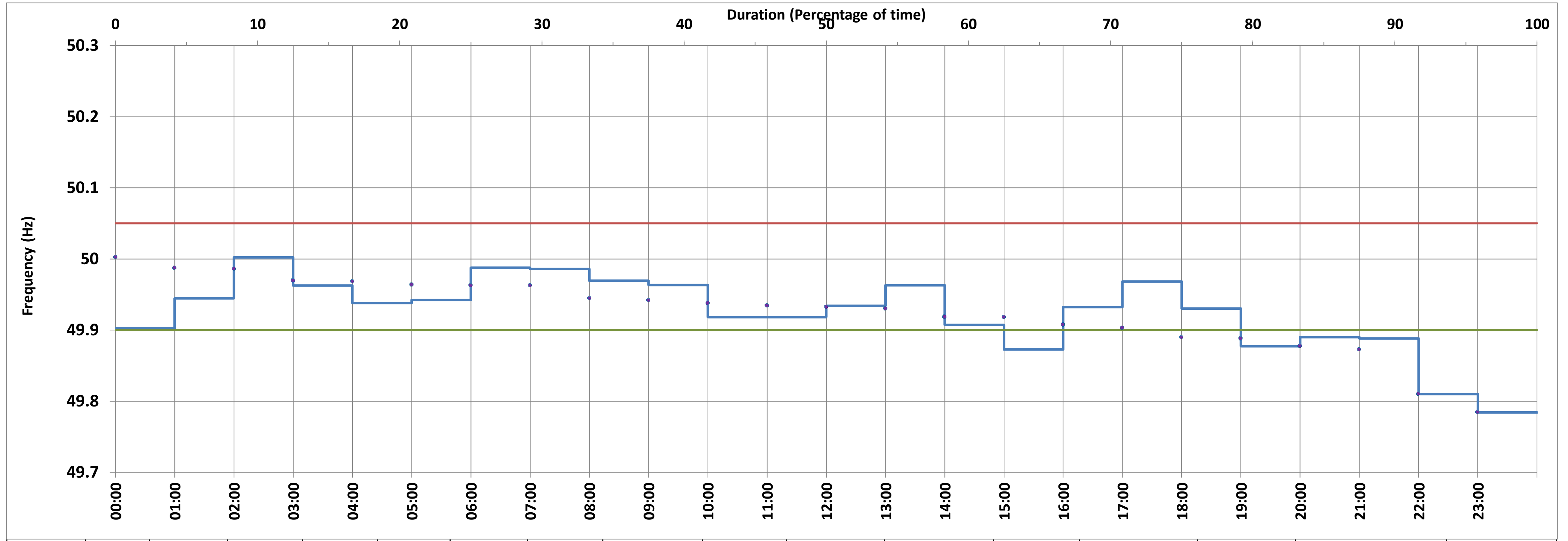
% time <49.95	57.29
% time between 49.95 to 50.05	42.71

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



DURGAPUR:Frequency

Hourly Average Frequency Profile for 5-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	25.00	87.50	4.17	20.83	70.83	4.17	0.00	75.00	95.83	12.50	0.00	4.17	0.00	0.00	4.17

Average Frequency :	49.925
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Mileage	0.7232
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Instantaneous Frequency		
Max	50.112	18:01:50
Min	49.587	22:58:20

Based on an hour Average Frequency			
Max	50.002	3:00:00	
Min	49.784	0:00:00	

No. of excursions above 50.03 Hz	0
No. of excursions below 49.97 Hz	3
No. of excursions above 50.00 Hz	1
No. of excursions below 50.00 Hz	2

% time <49.95	66.67
% time between 49.95 to 50.05	33.33

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