

**B-BEST Co.,Ltd.
Tokyo Factory
DC Power Supply
Diagnosis Report**

15-Feb-11

Approved by

B-BEST Co.,Ltd.

DC Power Supply

Company name	B-BEST Co.,Ltd.		
Office name	Tokyo Factory		
Customer name	Mr.Yoshida		
Storage battery type	MSE500x54	YUASA	
Manufacturing years	Nov-99		
Inspected day	15-Feb-11		
Use years	11 years 3 months		
Inspected by	B-BEST Co.,Ltd.	Maeda, Mizutani	

Diagnosis result

Inspected total cells	54	cells	
Normal cells	49	cells	(90.7%)
Cells: 50% Capacity < 80%	4	cells	(7.4%)
Cells: Capacity < 50%	1	cells	(1.9%)

Normal cells	discharge Voltage at 500mS	1.95 V
Cells: 50% Capacity < 80%	1.8 V discharge voltage	< 1.95 V
Cells: Capacity < 50%	discharge Voltage at 500mS	< 1.8 V

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- 1) Float voltage

- 2) Discharge voltage

- 3) Recovery voltage

- 4) Internal resistance

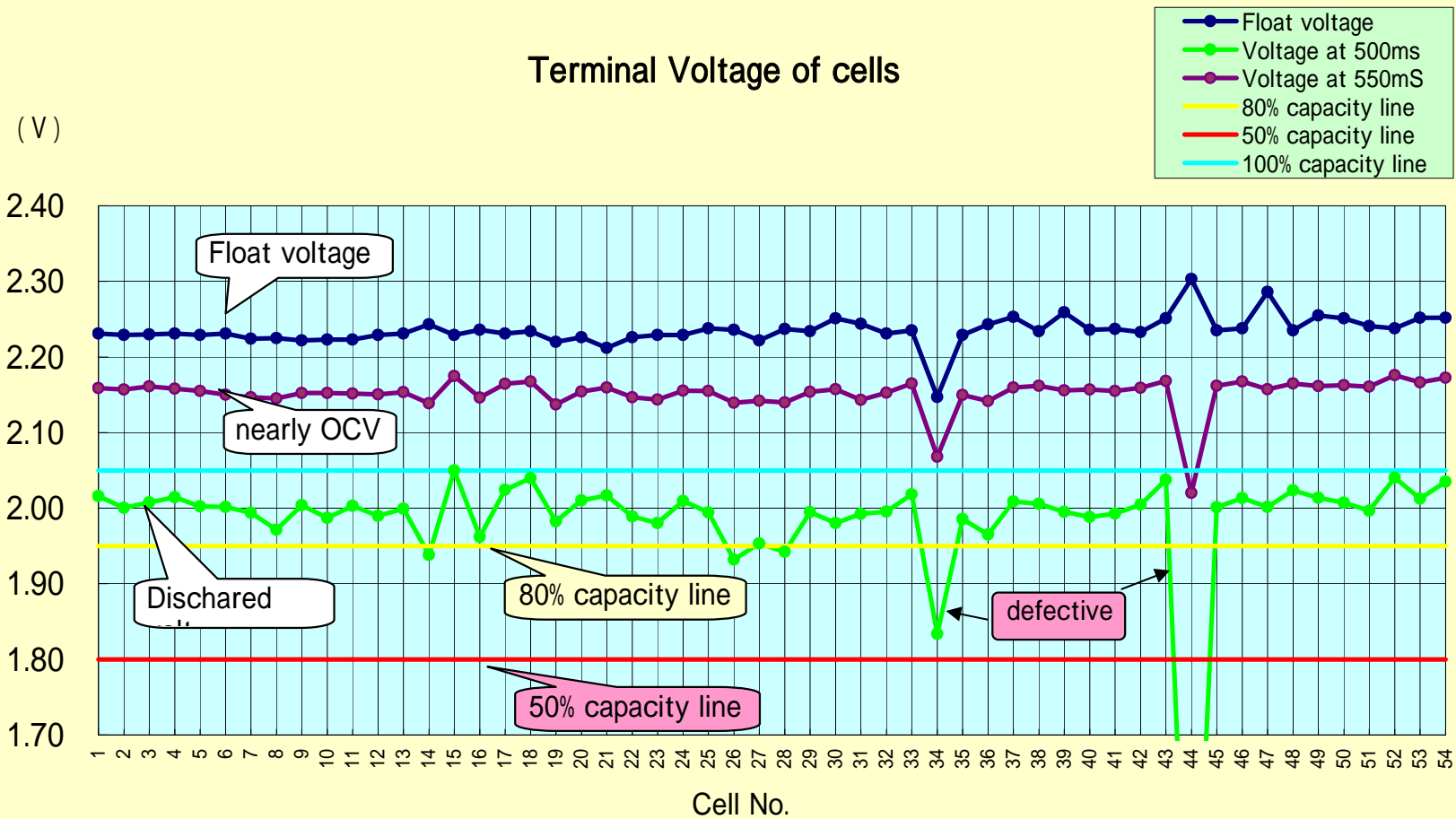
- 5) Others

B-BEST Co.,Ltd.
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Storage battery type MSE500x54
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Discharge current 500 A

Inspected day 15-Feb-11

Terminal Voltage of cells

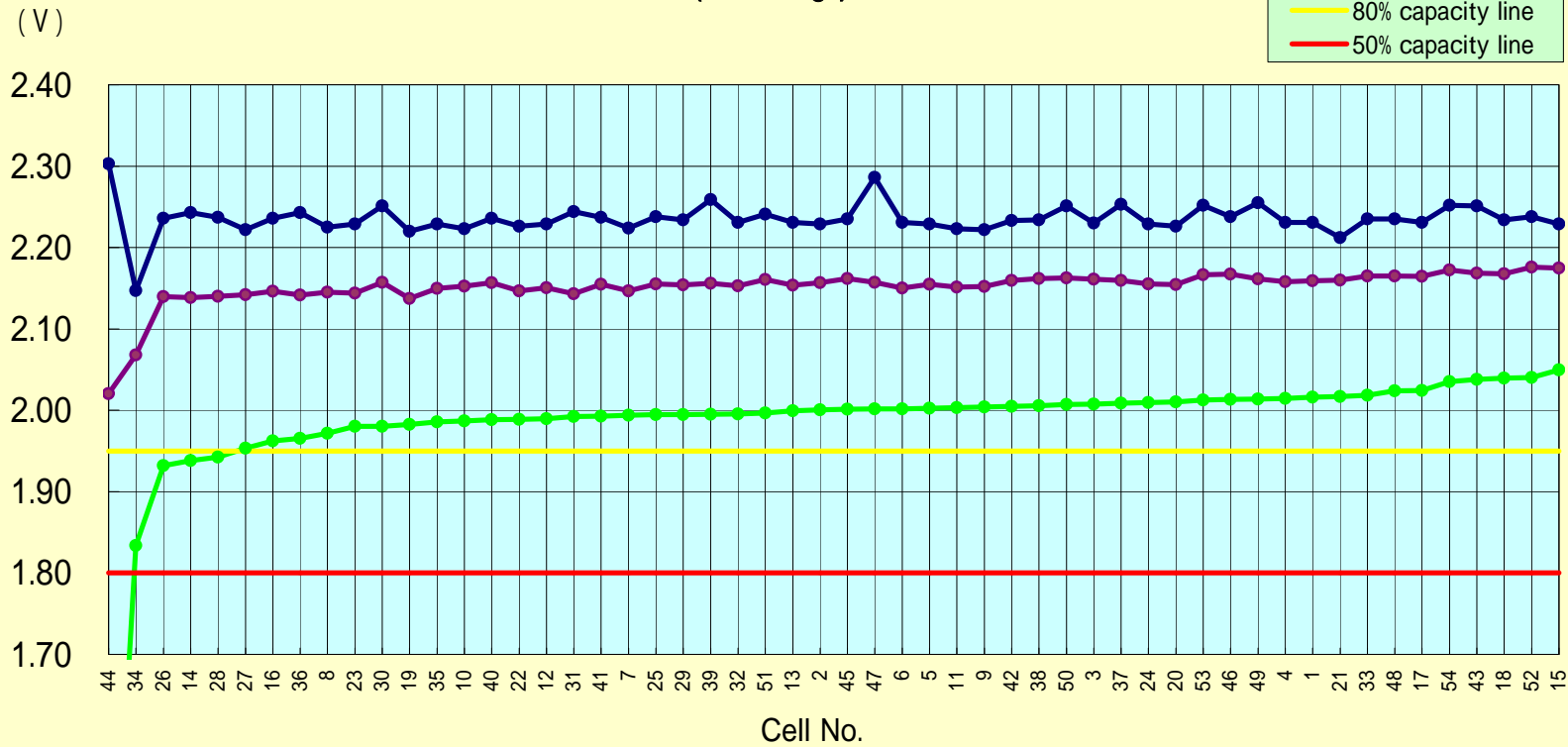


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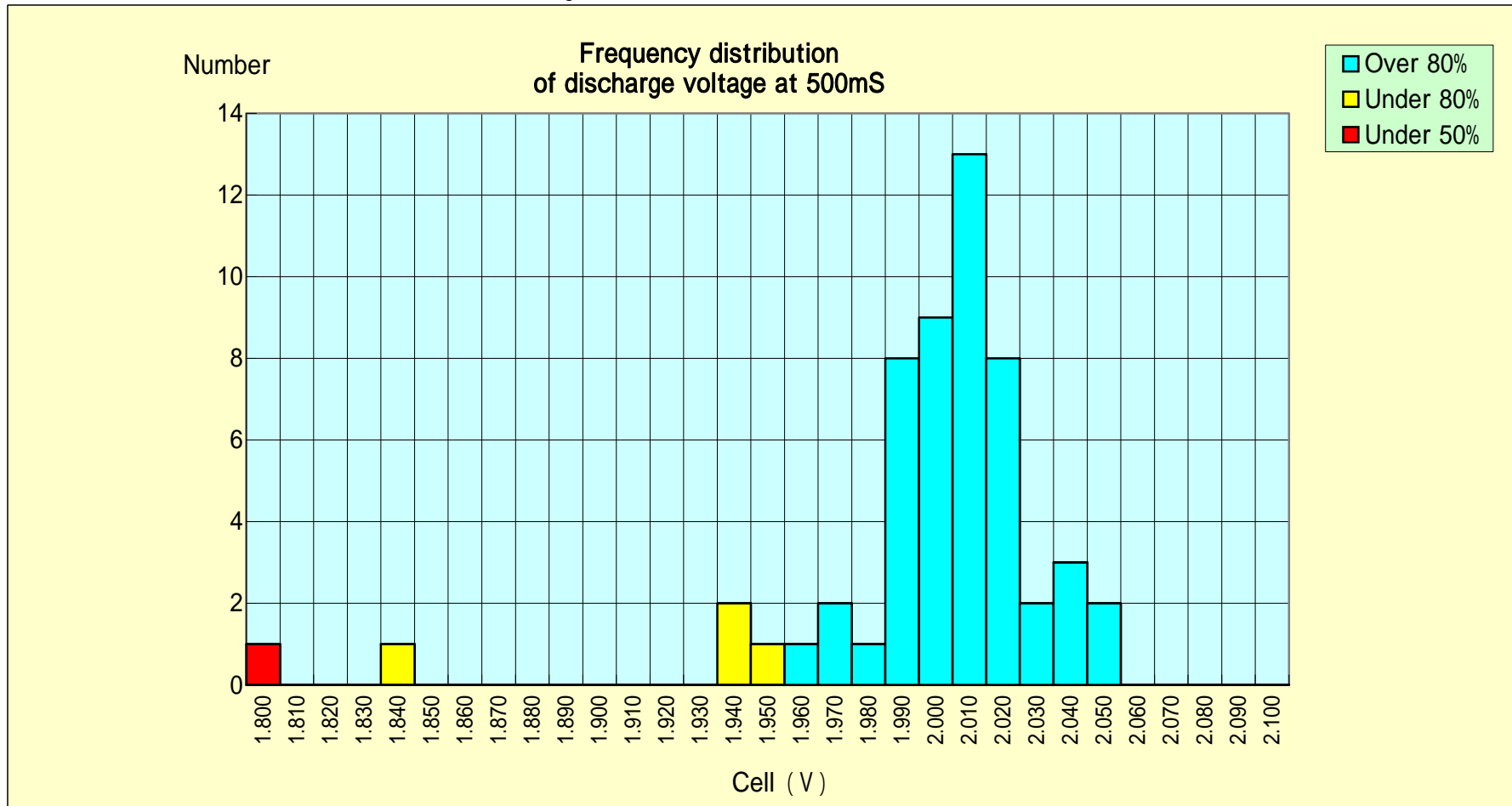
Terminal voltage of cells (Sorting)



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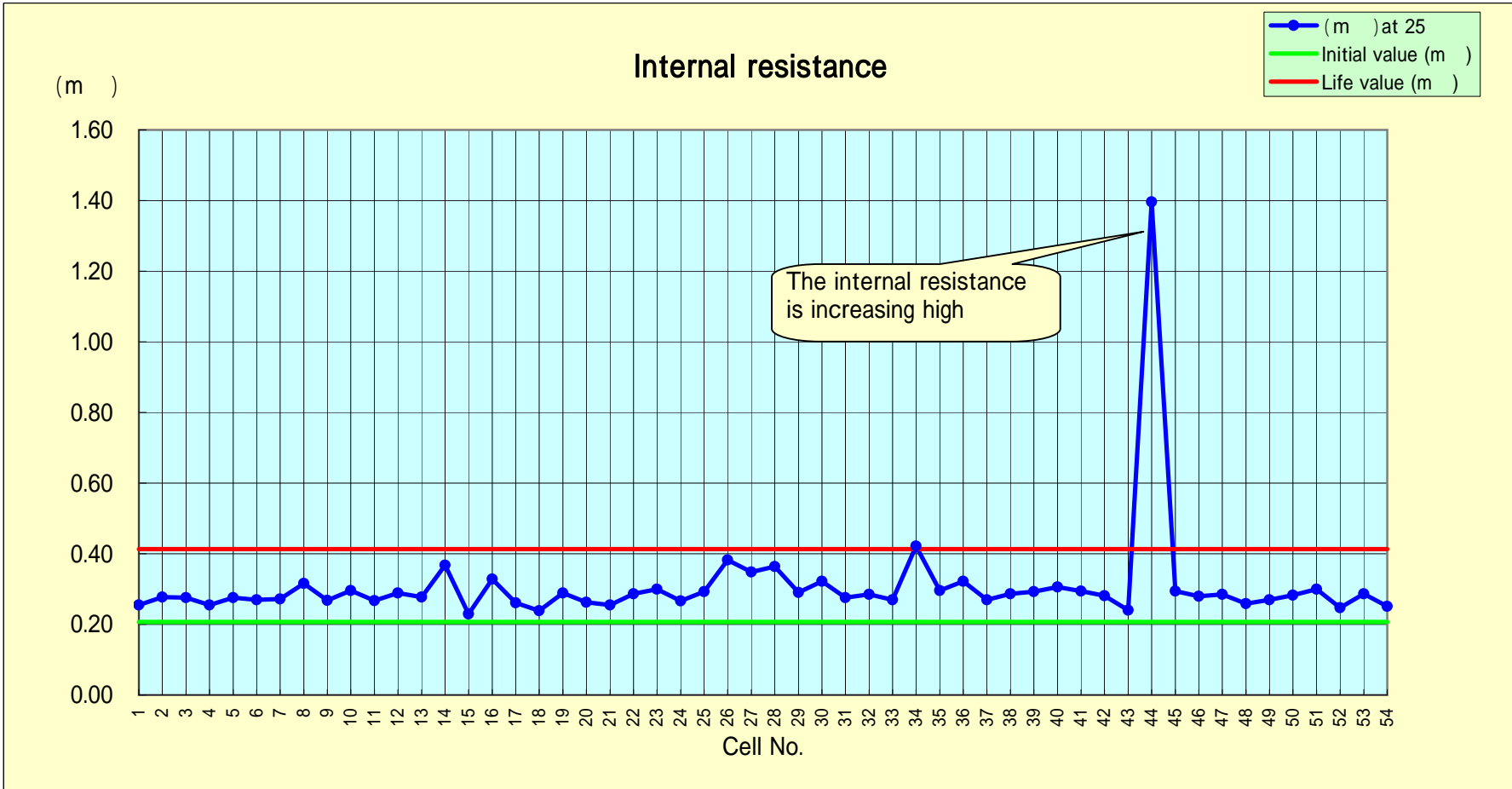
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Diagnosis result (No.1 ~ No.60)

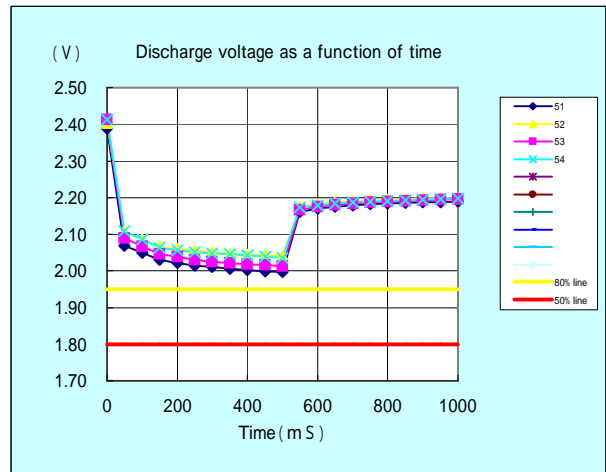
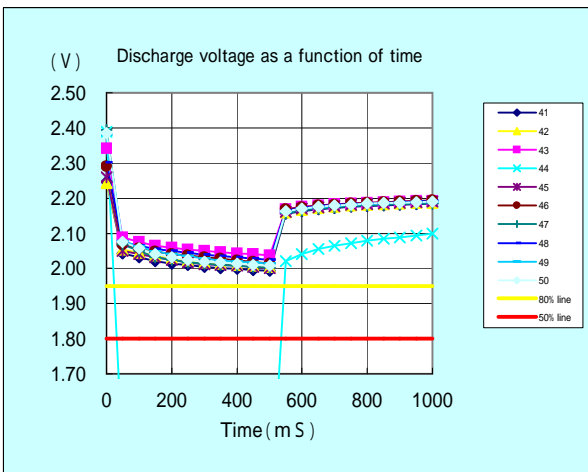
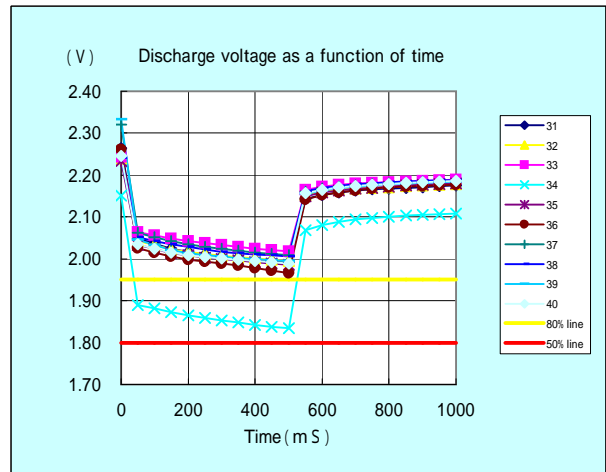
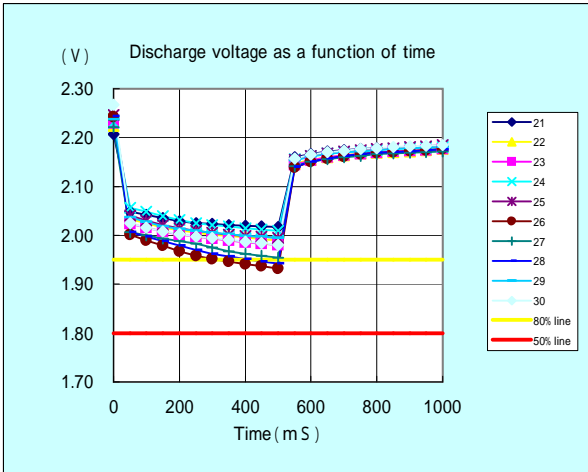
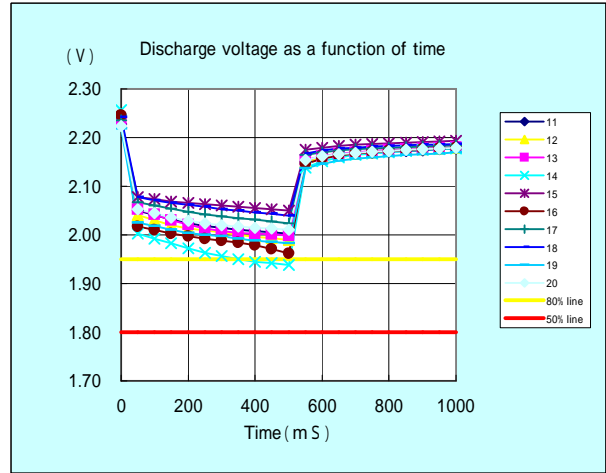
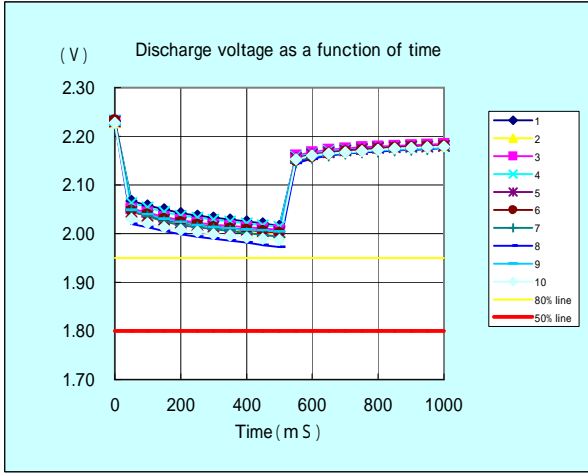
Cell No.	Float voltage (V)	Discharge V at 500mS (V)	Internal resistance (m Ω)	Capacity (%)
1	2.231	2.016	0.255	93%
2	2.229	2.001	0.277	90%
3	2.230	2.008	0.275	92%
4	2.231	2.015	0.255	93%
5	2.229	2.003	0.275	91%
6	2.231	2.002	0.270	90%
7	2.224	1.994	0.272	89%
8	2.225	1.972	0.316	84%
9	2.222	2.004	0.268	91%
10	2.223	1.987	0.296	87%
11	2.223	2.003	0.267	91%
12	2.229	1.990	0.289	88%
13	2.231	1.999	0.277	90%
14	2.243	1.938	0.367	78%
15	2.229	2.050	0.229	100%
16	2.236	1.962	0.328	82%
17	2.231	2.024	0.261	95%
18	2.234	2.040	0.238	98%
19	2.220	1.983	0.289	87%
20	2.226	2.010	0.262	92%
21	2.212	2.017	0.255	93%
22	2.226	1.989	0.287	88%
23	2.229	1.980	0.300	86%
24	2.229	2.010	0.266	92%
25	2.238	1.995	0.292	89%
26	2.236	1.932	0.382	76%
27	2.222	1.954	0.349	81%
28	2.237	1.942	0.364	78%
29	2.234	1.995	0.290	89%
30	2.251	1.980	0.322	86%
31	2.244	1.993	0.275	89%
32	2.231	1.996	0.285	89%
33	2.235	2.018	0.270	94%
34	2.147	1.834	0.422	57%
35	2.229	1.986	0.296	87%
36	2.243	1.965	0.322	83%
37	2.253	2.009	0.270	92%
38	2.234	2.006	0.287	91%
39	2.259	1.995	0.292	89%
40	2.236	1.988	0.305	88%
41	2.237	1.993	0.294	89%
42	2.233	2.005	0.281	91%
43	2.251	2.038	0.240	98%
44	2.303	1.263	1.396	No-Judge
45	2.235	2.001	0.294	90%
46	2.238	2.014	0.279	93%
47	2.286	2.002	0.285	90%
48	2.235	2.024	0.259	95%
49	2.255	2.014	0.269	93%
50	2.251	2.007	0.282	91%
51	2.241	1.997	0.299	89%
52	2.238	2.040	0.247	98%
53	2.252	2.013	0.286	93%
54	2.252	2.035	0.251	97%

Note	Normal V 2.13V	Normal V 1.950V	Internal resistance (m Ω)	Capacity (%)
	Non-standard V < 2.13V	Under 80% capacity 1.800 ~ 1.950V		
		Under 50% capacity V < 1.800V		

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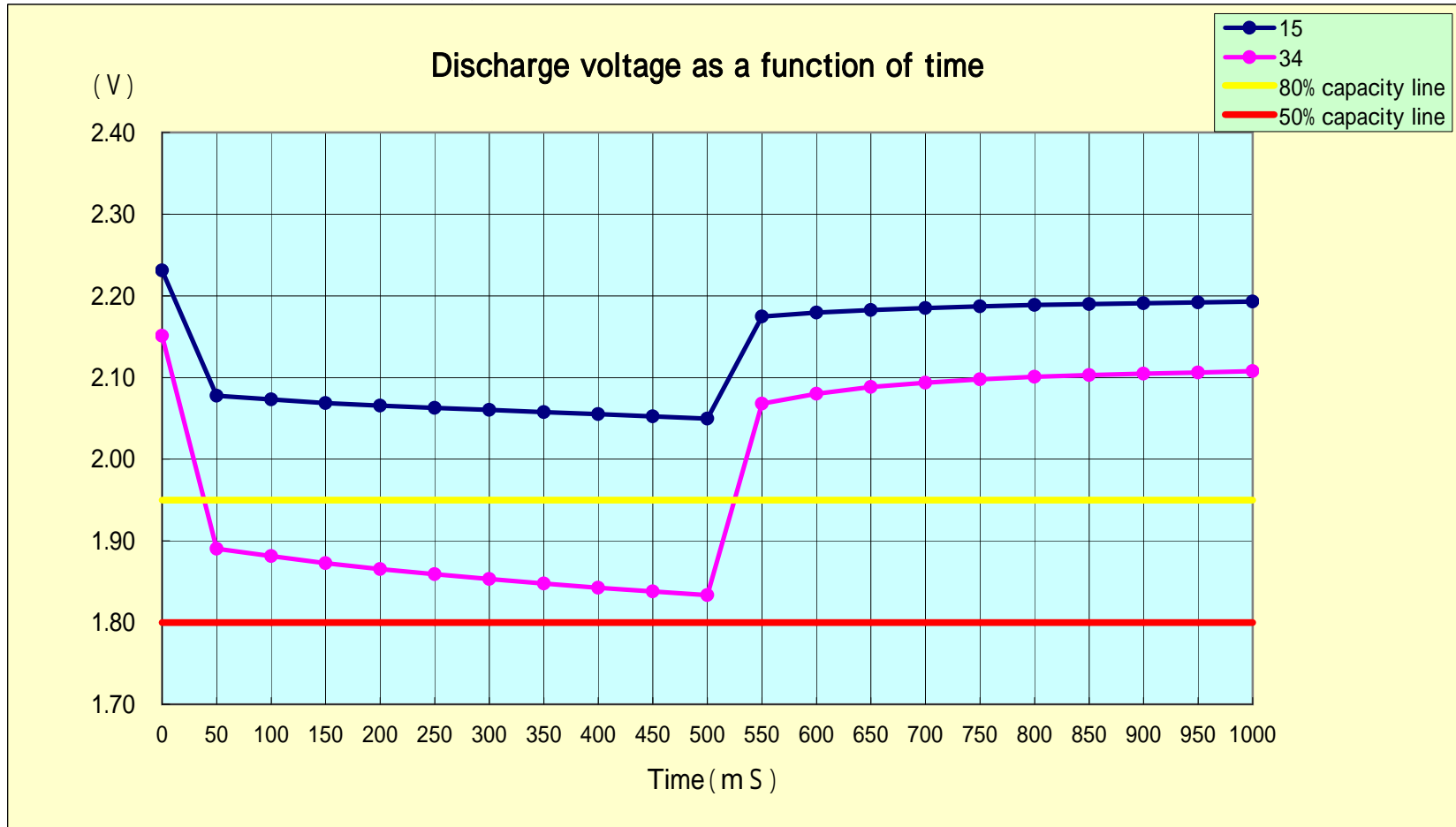
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