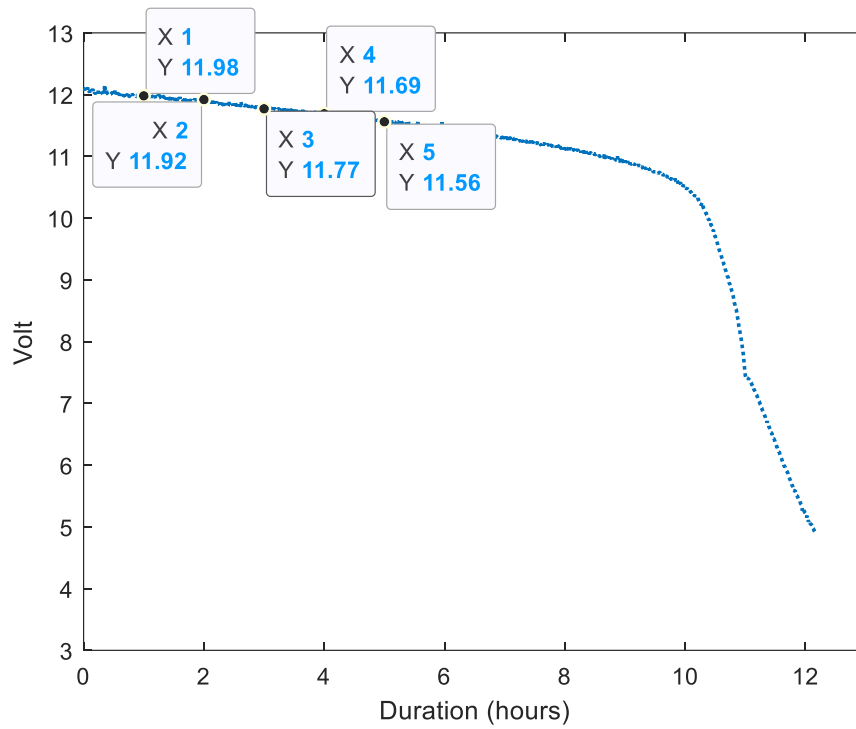
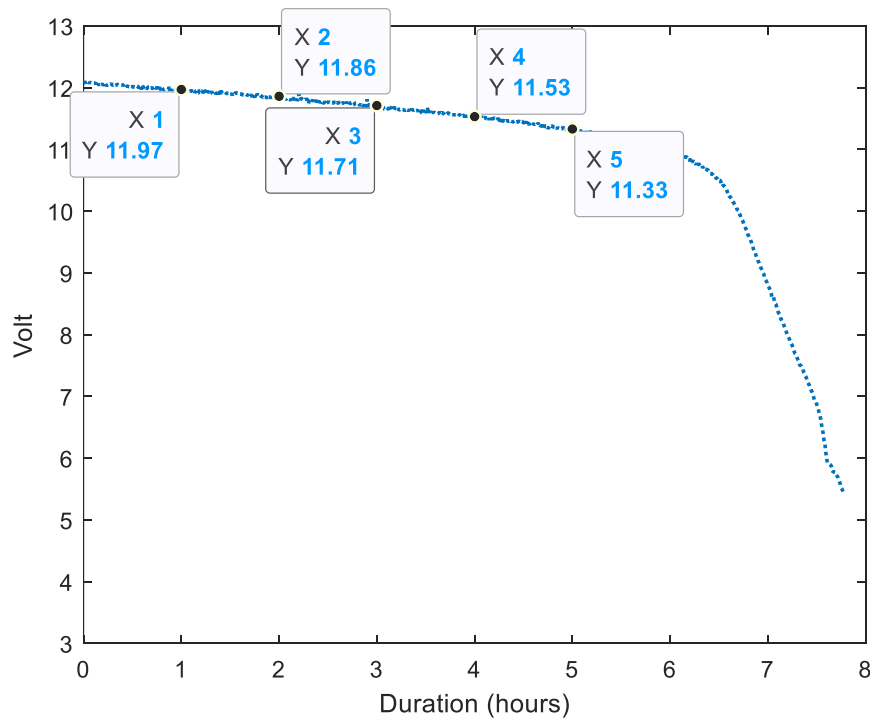


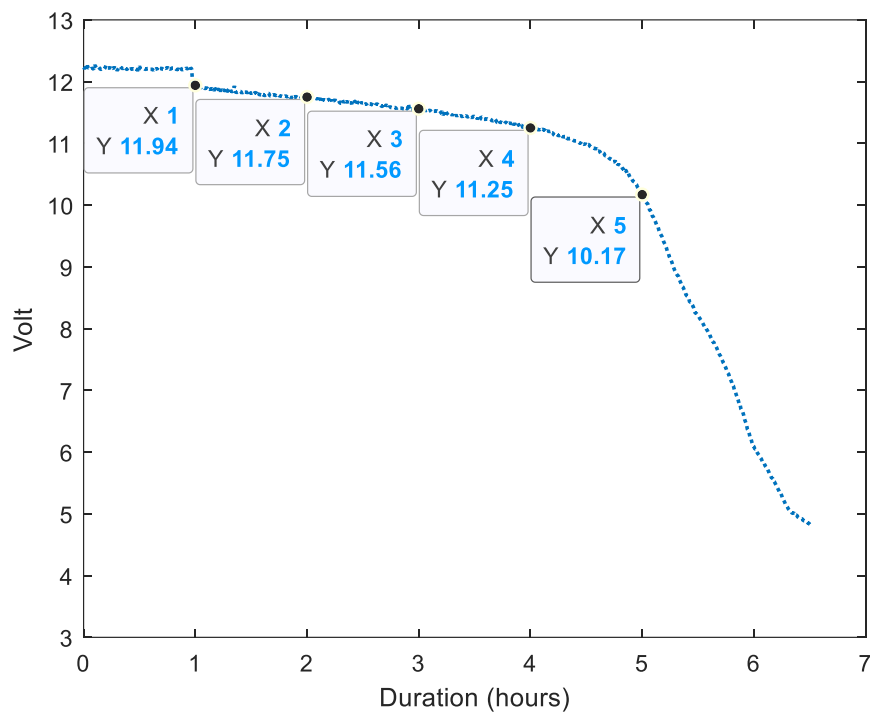
### Appendix A. Supplementary data



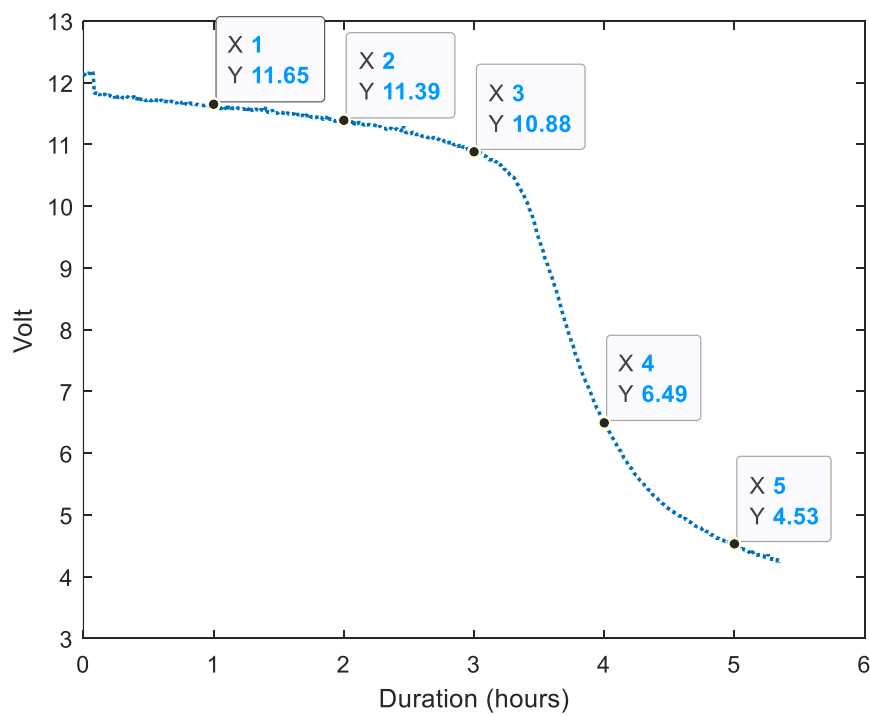
**Figure A1.** Five data points' collection for ANFIS training. This data is from the discharge experiment for a 130 Watts load.



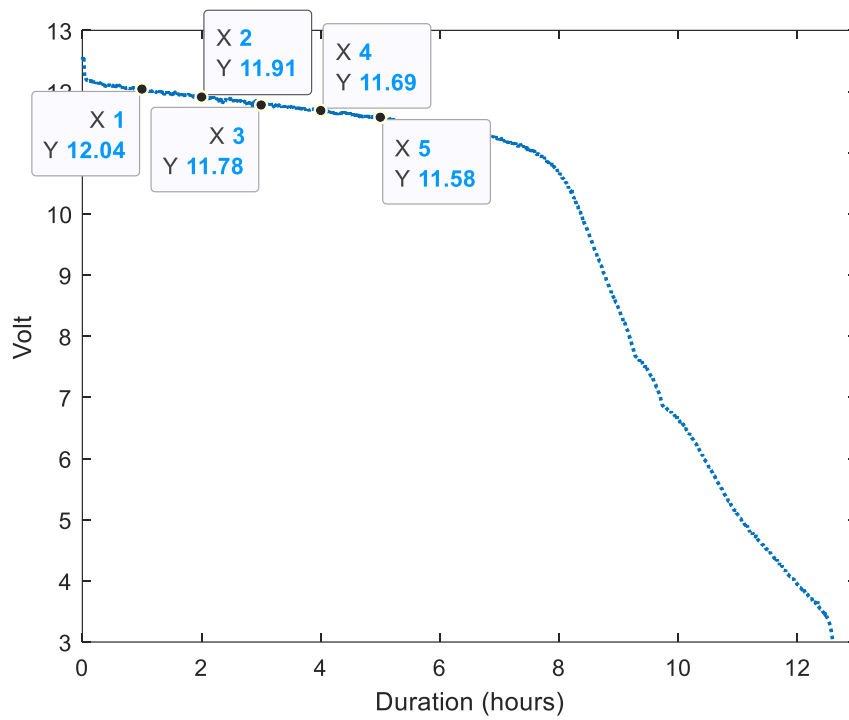
**Figure A2.** Five data points' collection for ANFIS training. This data is from the discharge experiment for a 180 Watts load.



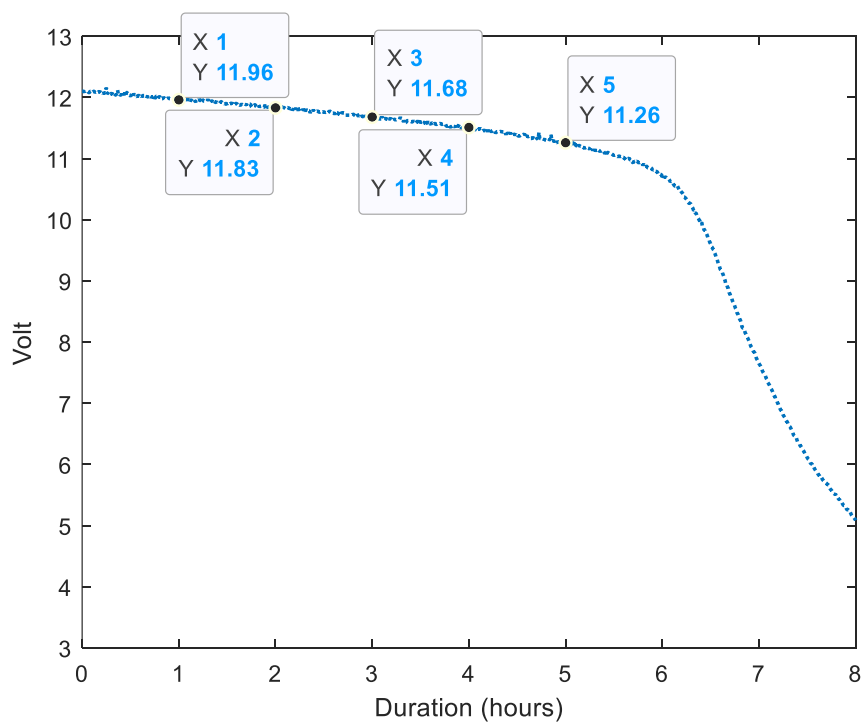
**Figure A3.** Five data points' collection for ANFIS training. This data is from the discharge experiment for a 200 Watts load.



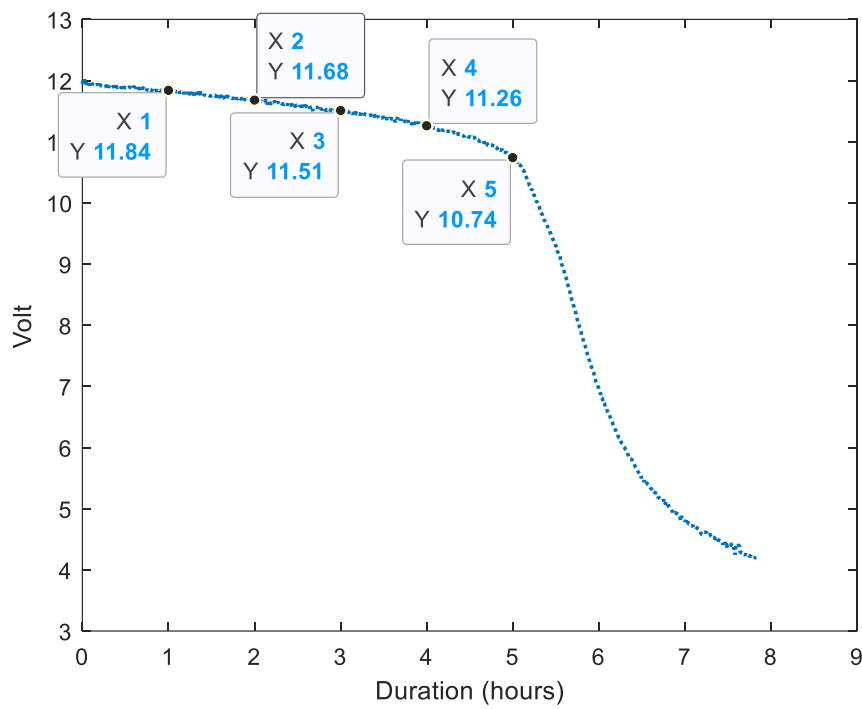
**Figure A4.** Five data points' collection for ANFIS training. This data is from the discharge experiment for a 220 Watts load.



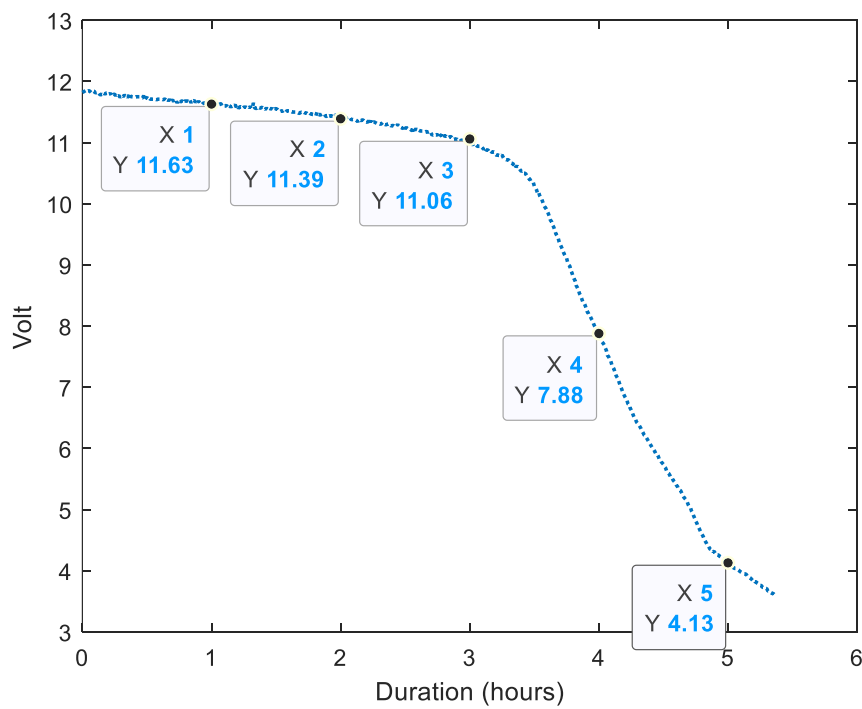
**Figure B1.** Five data points' collection for ANFIS testing. This data is from the discharge experiment for a 130 Watts load.



**Figure B2.** Five data points' collection for ANFIS testing. This data is from the discharge experiment for a 180 Watts load.



**Figure B3.** Five data points' collection for ANFIS testing. This data is from the discharge experiment for a 200 Watts load.



**Figure B4.** Five data points' collection for ANFIS testing. This data is from the discharge experiment for a 220 Watts load.