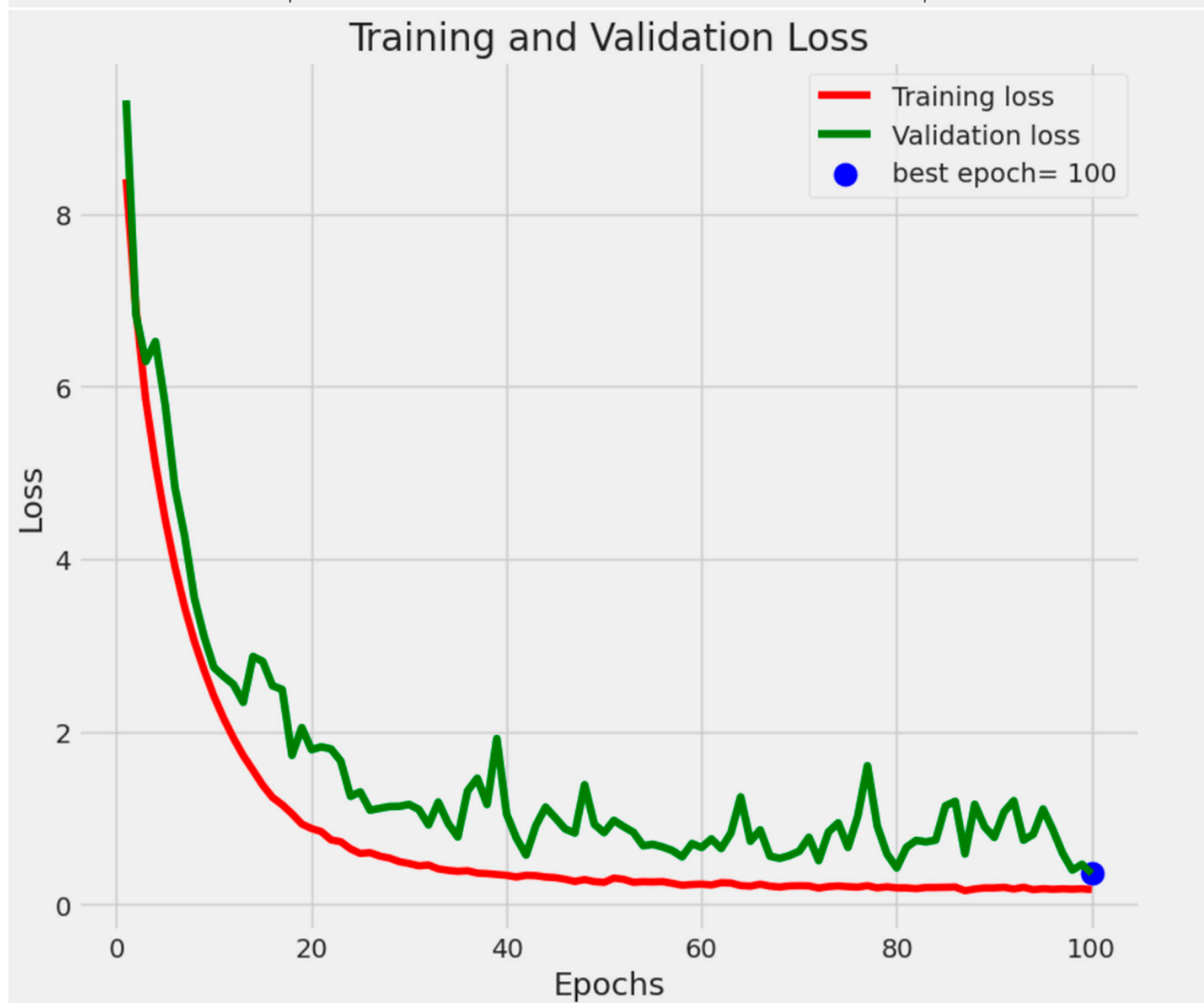
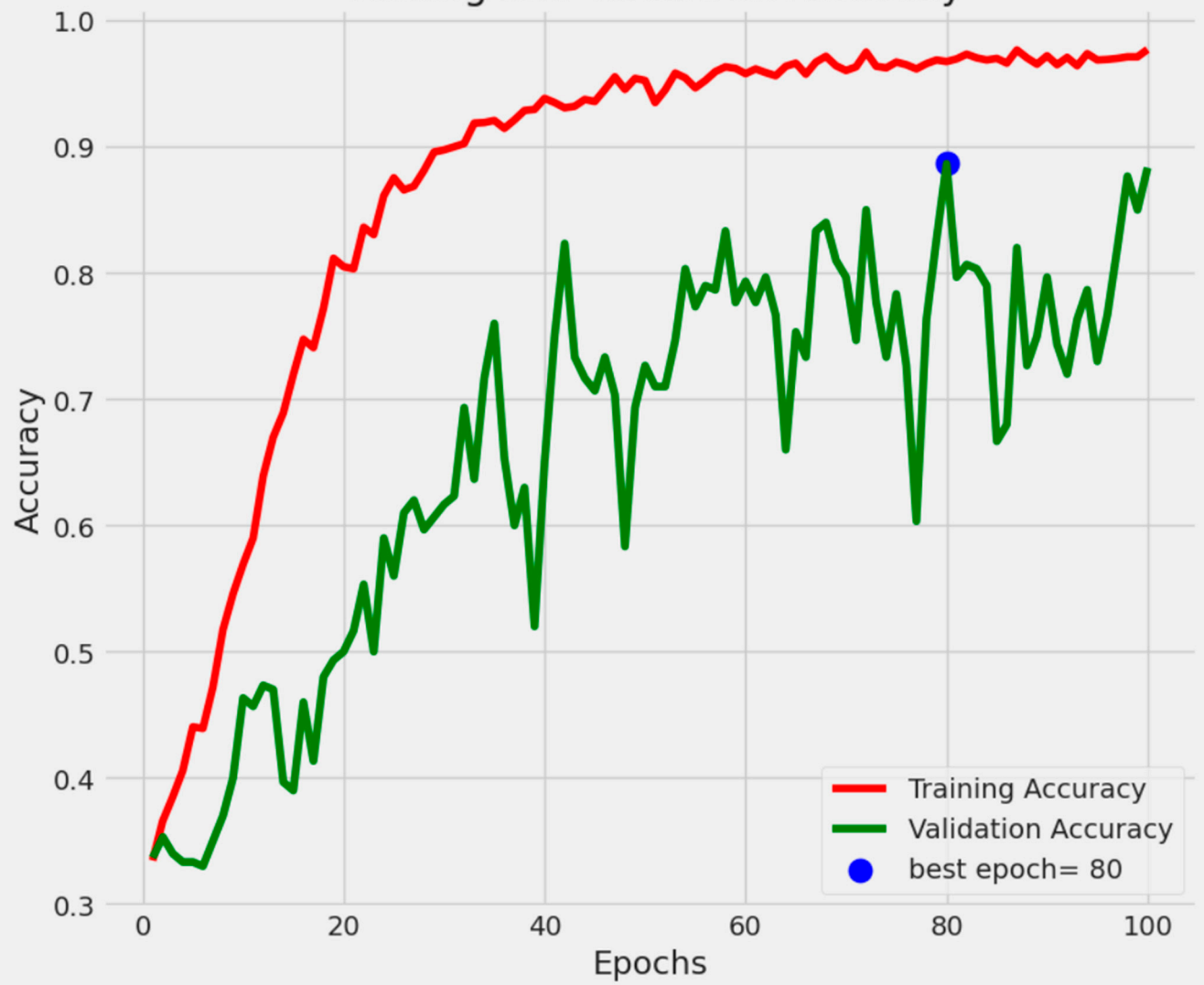
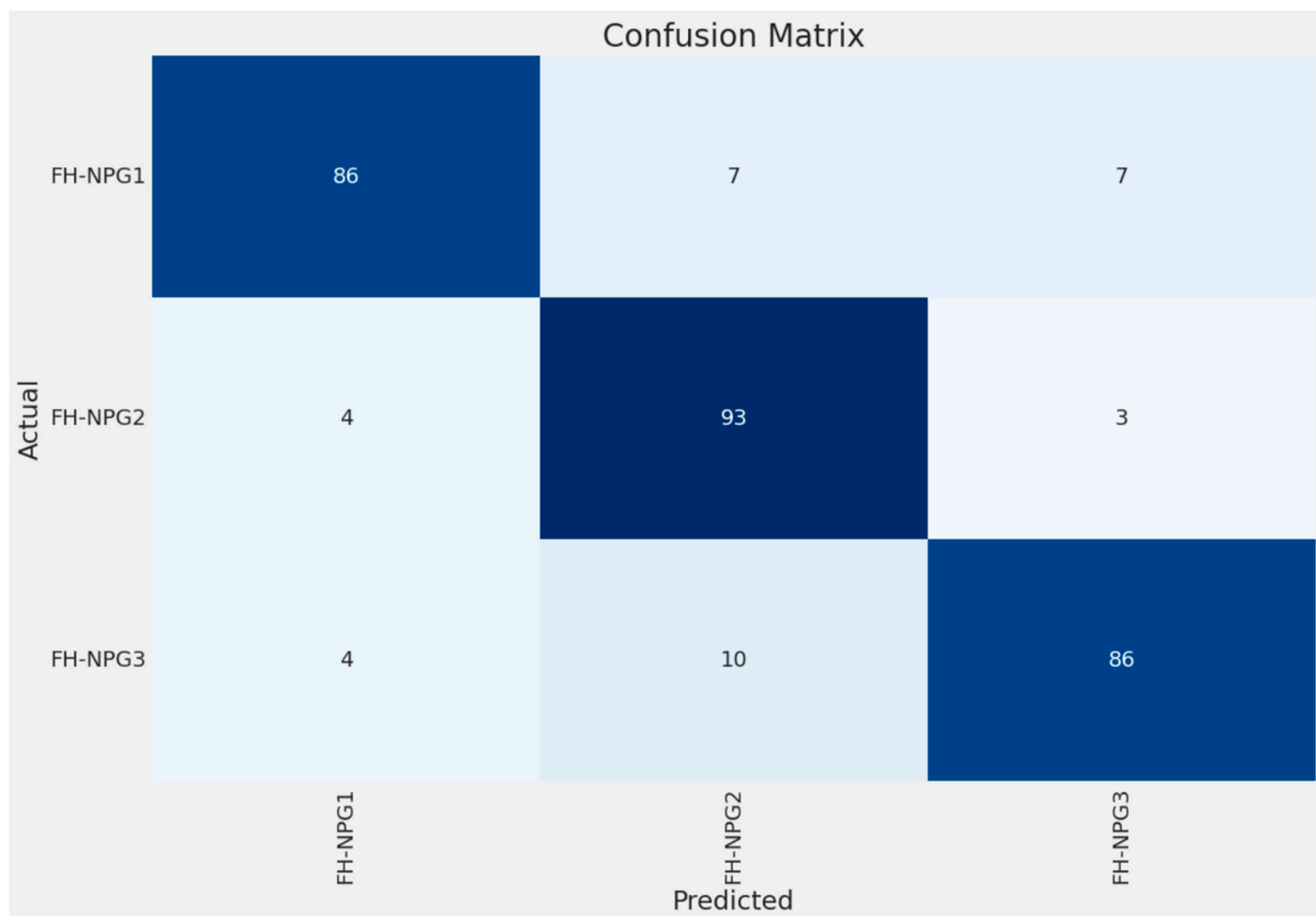


## MOBILENET V2



Training and Validation Accuracy





there were 35 errors in 300 tests for an accuracy of 88.33

#### Classification Report:

	precision	recall	f1-score	support
FH-NPG1	0.9149	0.8600	0.8866	100
FH-NPG2	0.8455	0.9300	0.8857	100
FH-NPG3	0.8958	0.8600	0.8776	100
accuracy			0.8833	300
macro avg	0.8854	0.8833	0.8833	300
weighted avg	0.8854	0.8833	0.8833	300

**INCEPTION V3: %31.33**

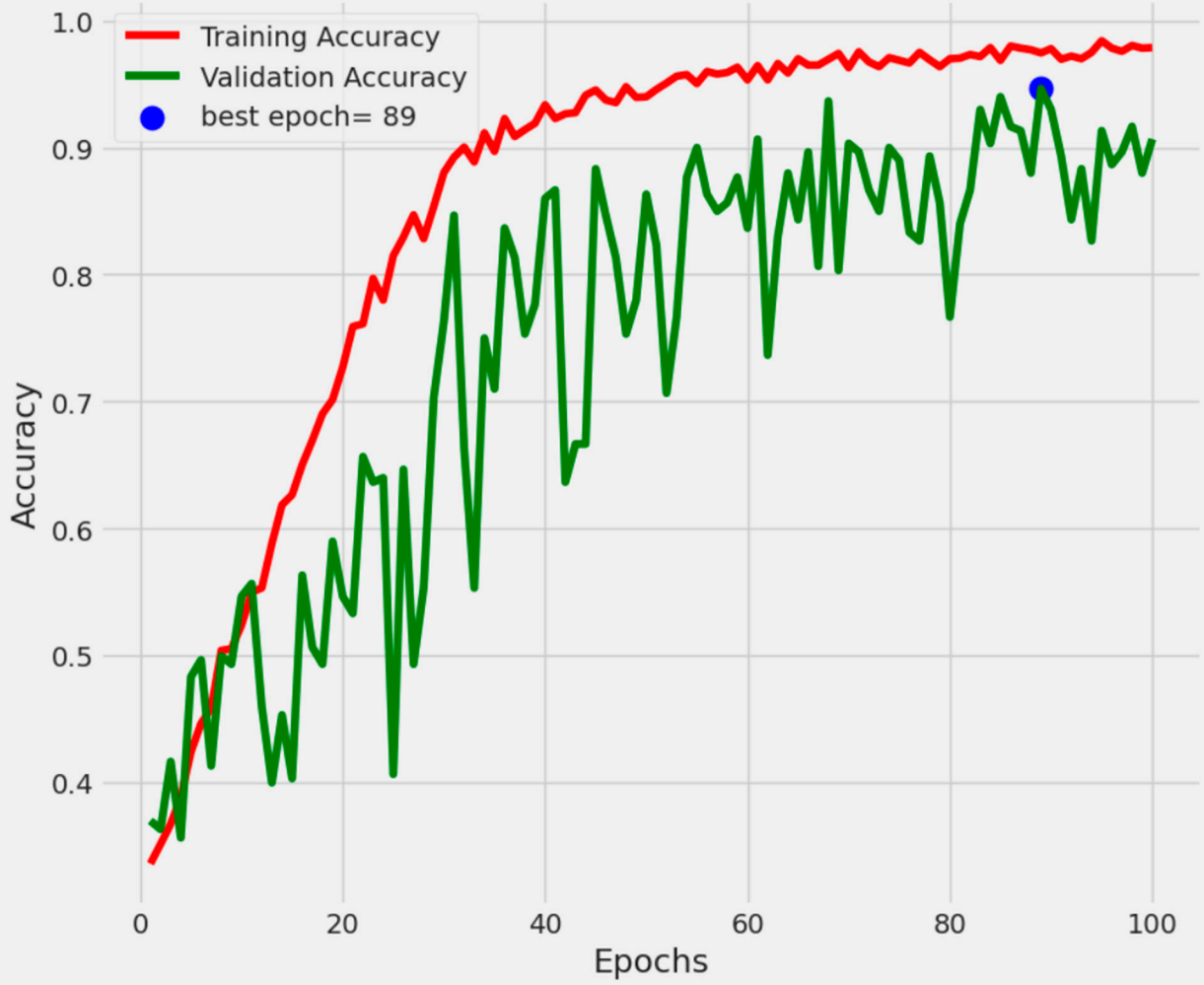
**DENSENET121**

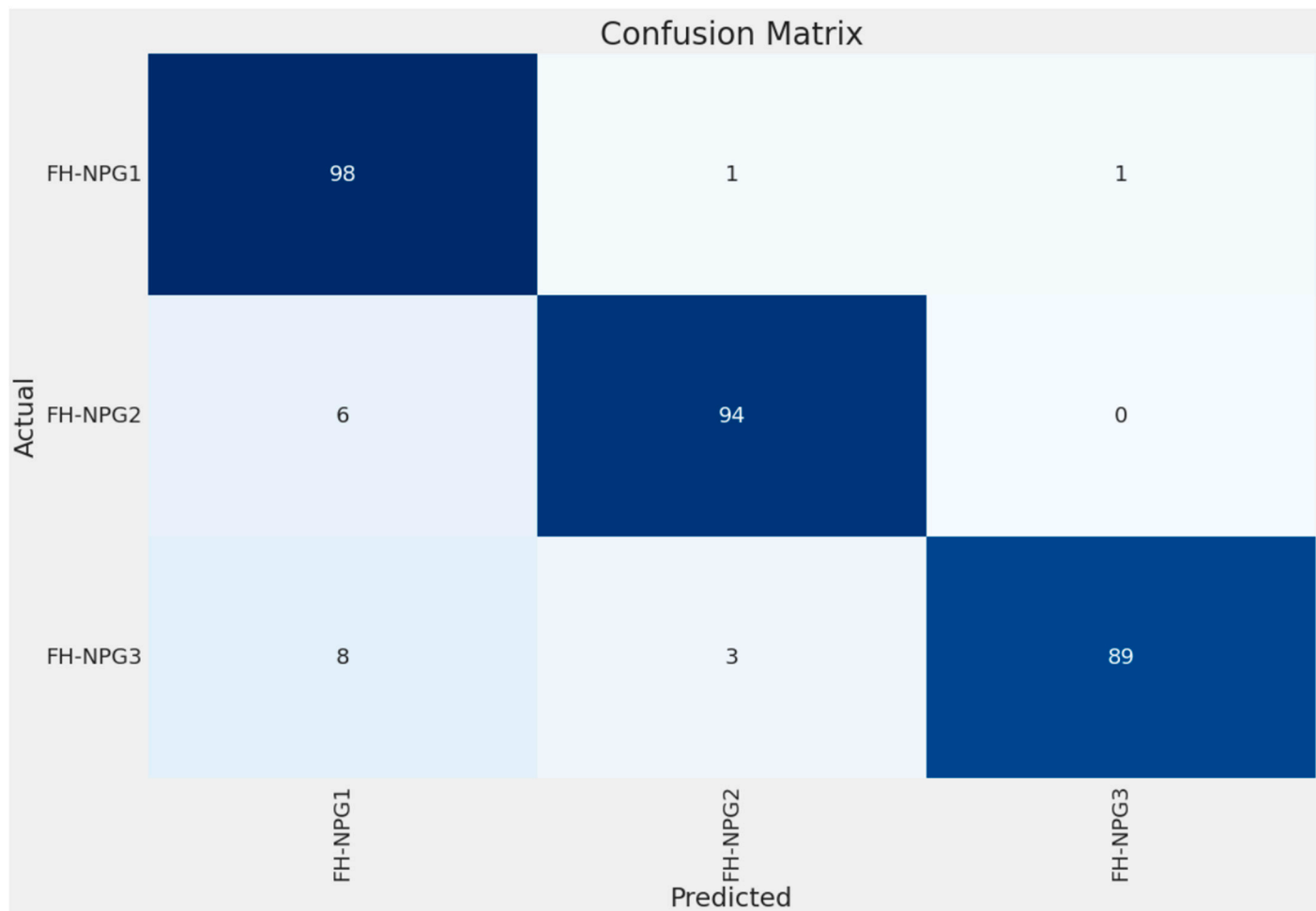


Training and Validation Loss



Training and Validation Accuracy



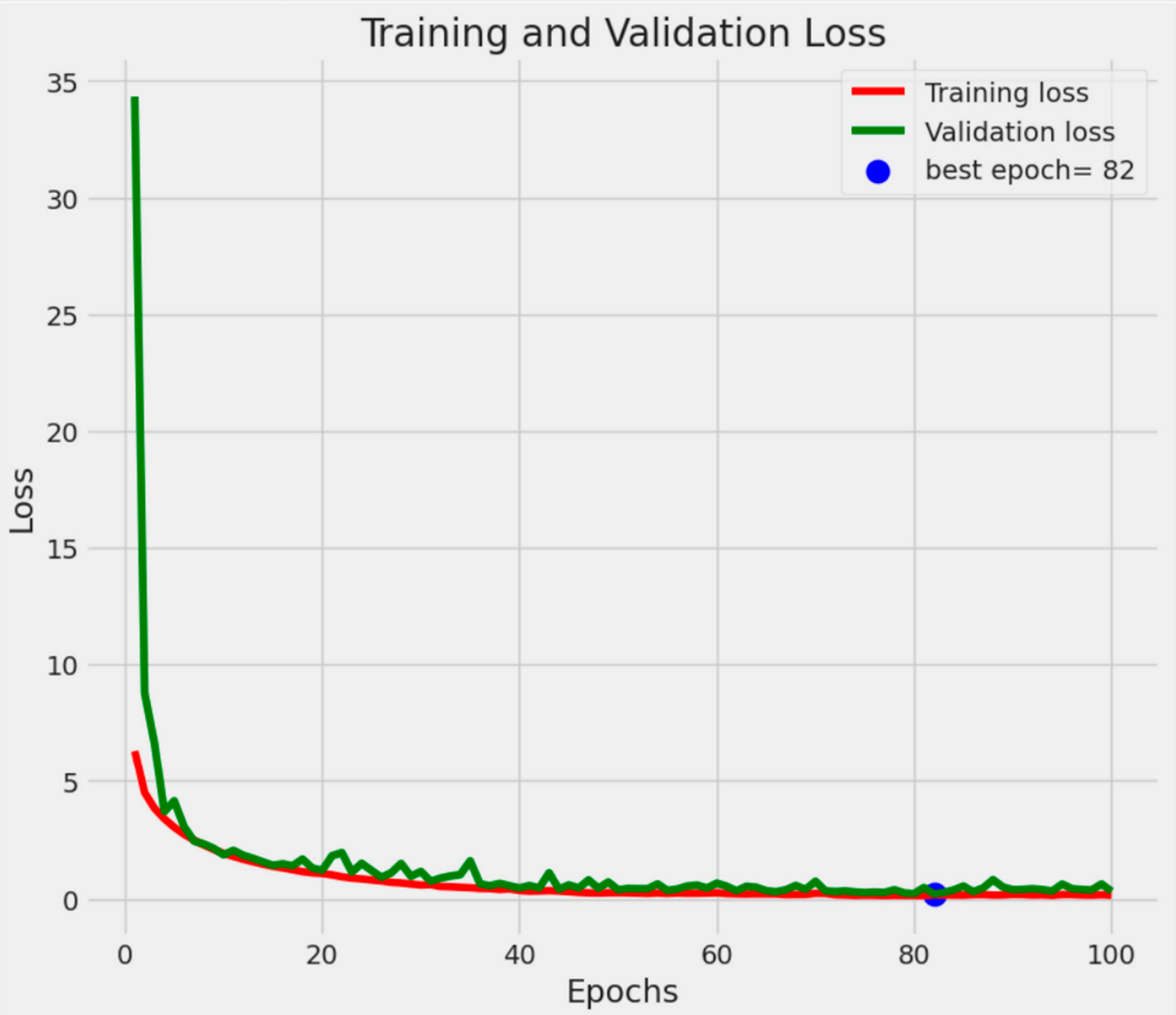
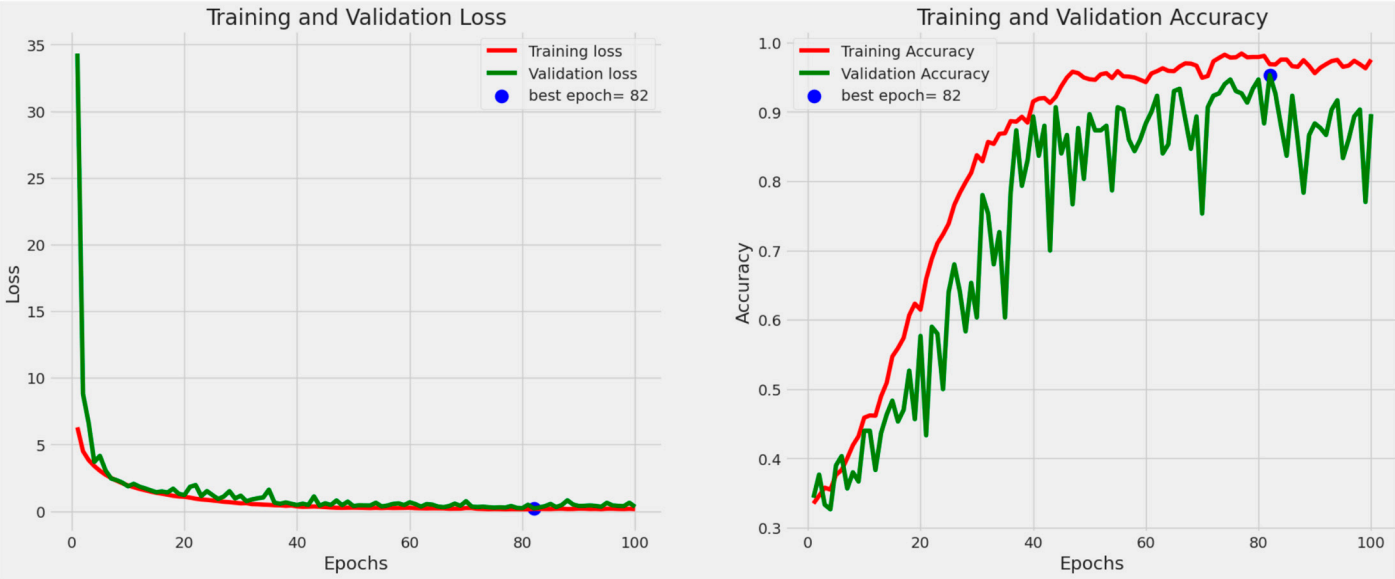


there were 19 errors in 300 tests for an accuracy of 93.67

#### Classification Report:

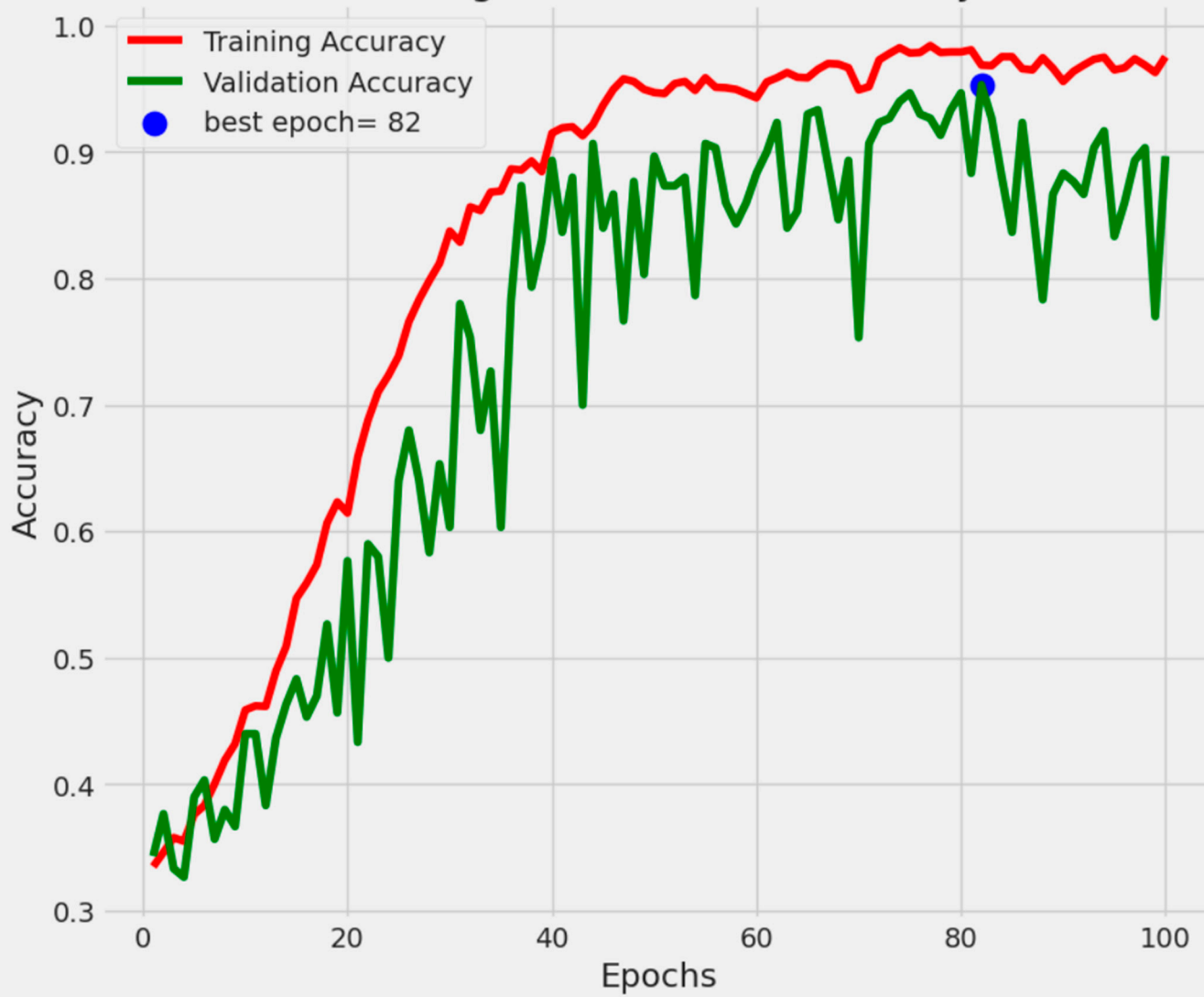
	precision	recall	f1-score	support
FH-NPG1	0.8750	0.9800	0.9245	100
FH-NPG2	0.9592	0.9400	0.9495	100
FH-NPG3	0.9889	0.8900	0.9368	100
accuracy			0.9367	300
macro avg	0.9410	0.9367	0.9370	300
weighted avg	0.9410	0.9367	0.9370	300

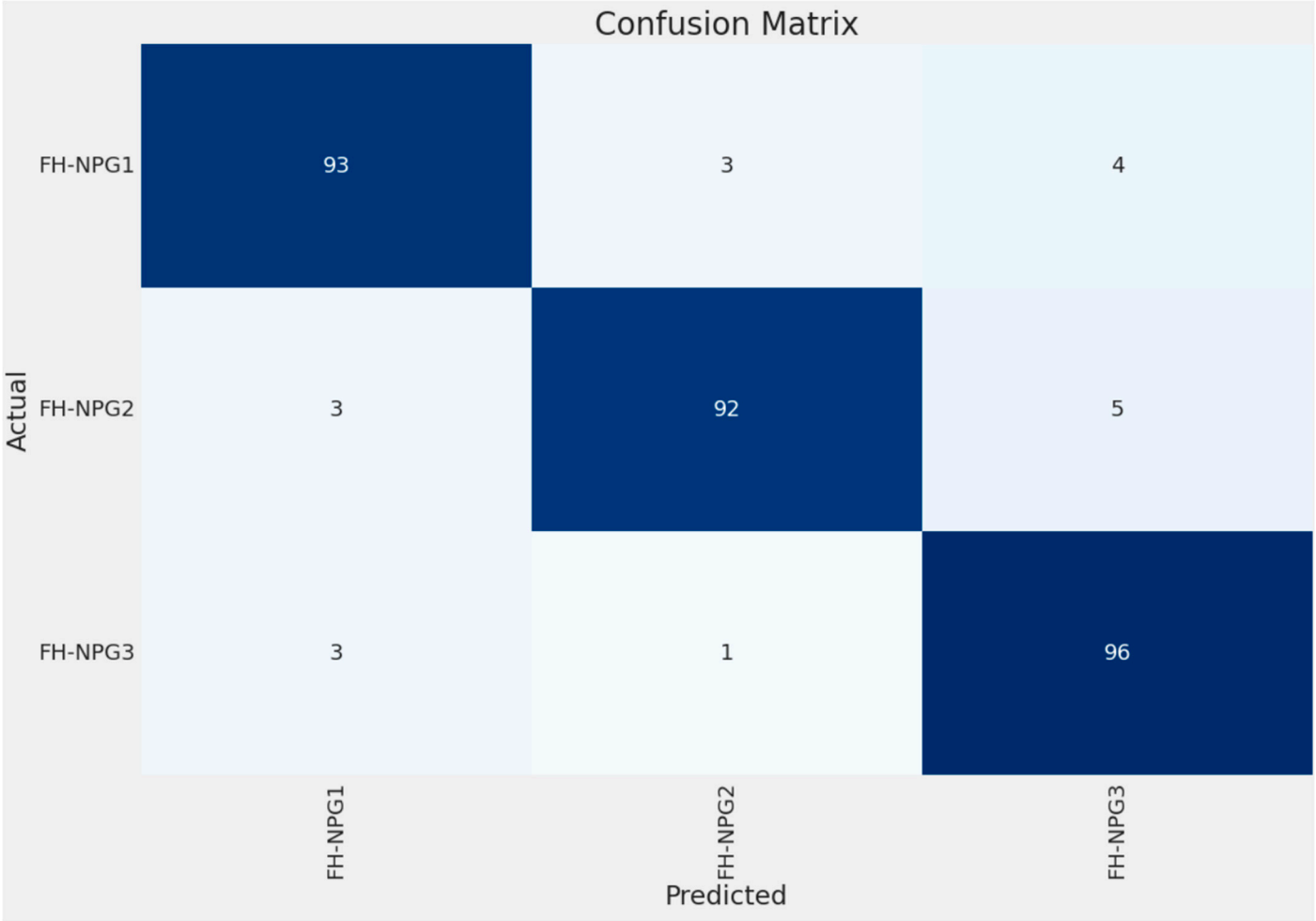
DENSENET 169





# Training and Validation Accuracy



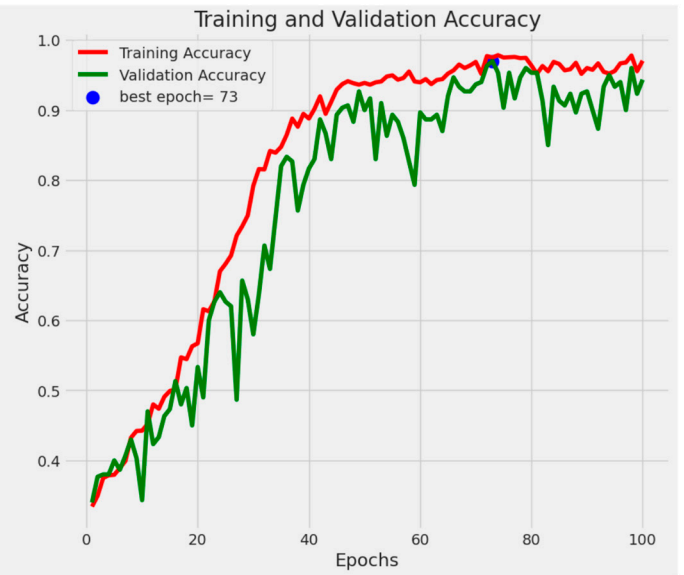
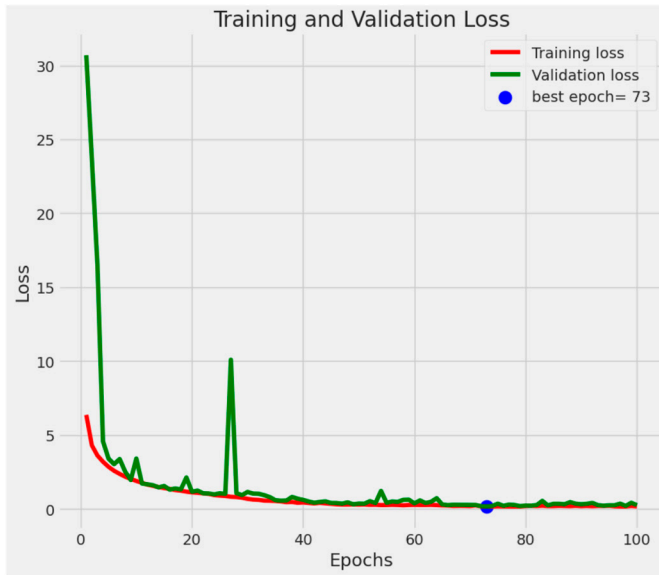


there were 19 errors in 300 tests for an accuracy of 93.67

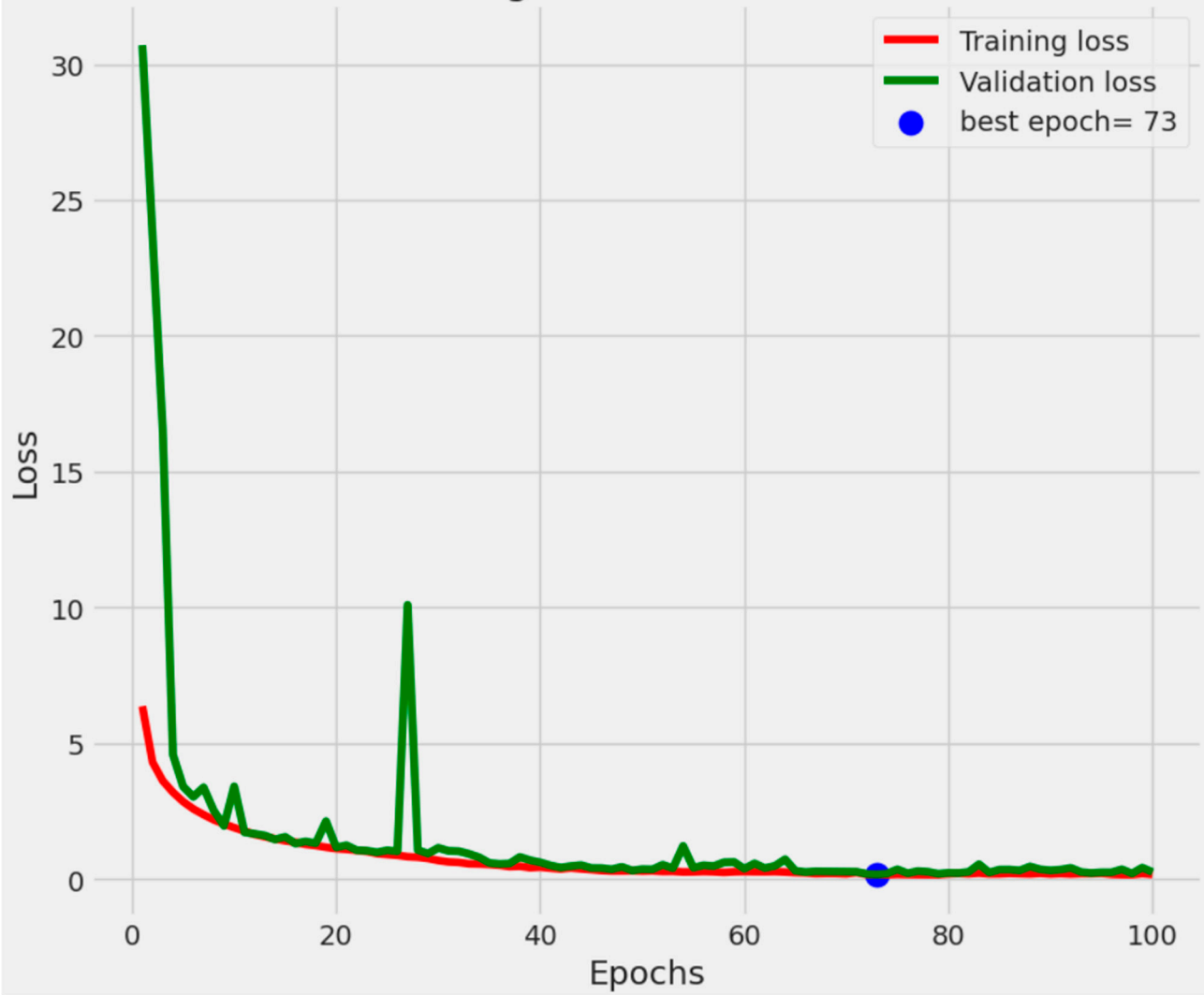
Classification Report:

	precision	recall	f1-score	support
FH-NPG1	0.9394	0.9300	0.9347	100
FH-NPG2	0.9583	0.9200	0.9388	100
FH-NPG3	0.9143	0.9600	0.9366	100
accuracy			0.9367	300
macro avg	0.9373	0.9367	0.9367	300
weighted avg	0.9373	0.9367	0.9367	300

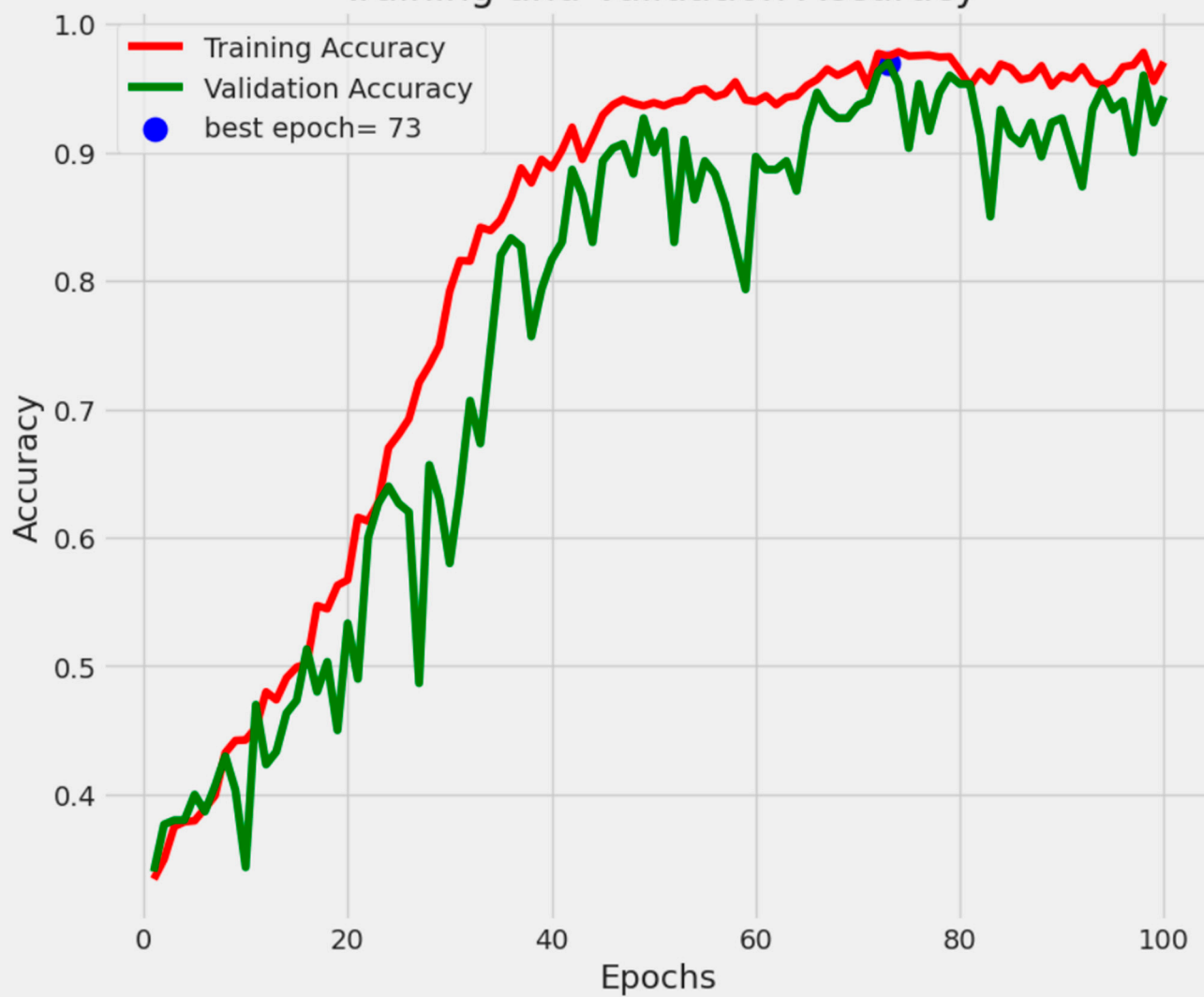
# DENSENET 201



# Training and Validation Loss



# Training and Validation Accuracy



Actual	FH-NPG1	95	0	5
	FH-NPG2	2	97	1
	FH-NPG3	0	0	100
		FH-NPG1	FH-NPG2	FH-NPG3
		Predicted		

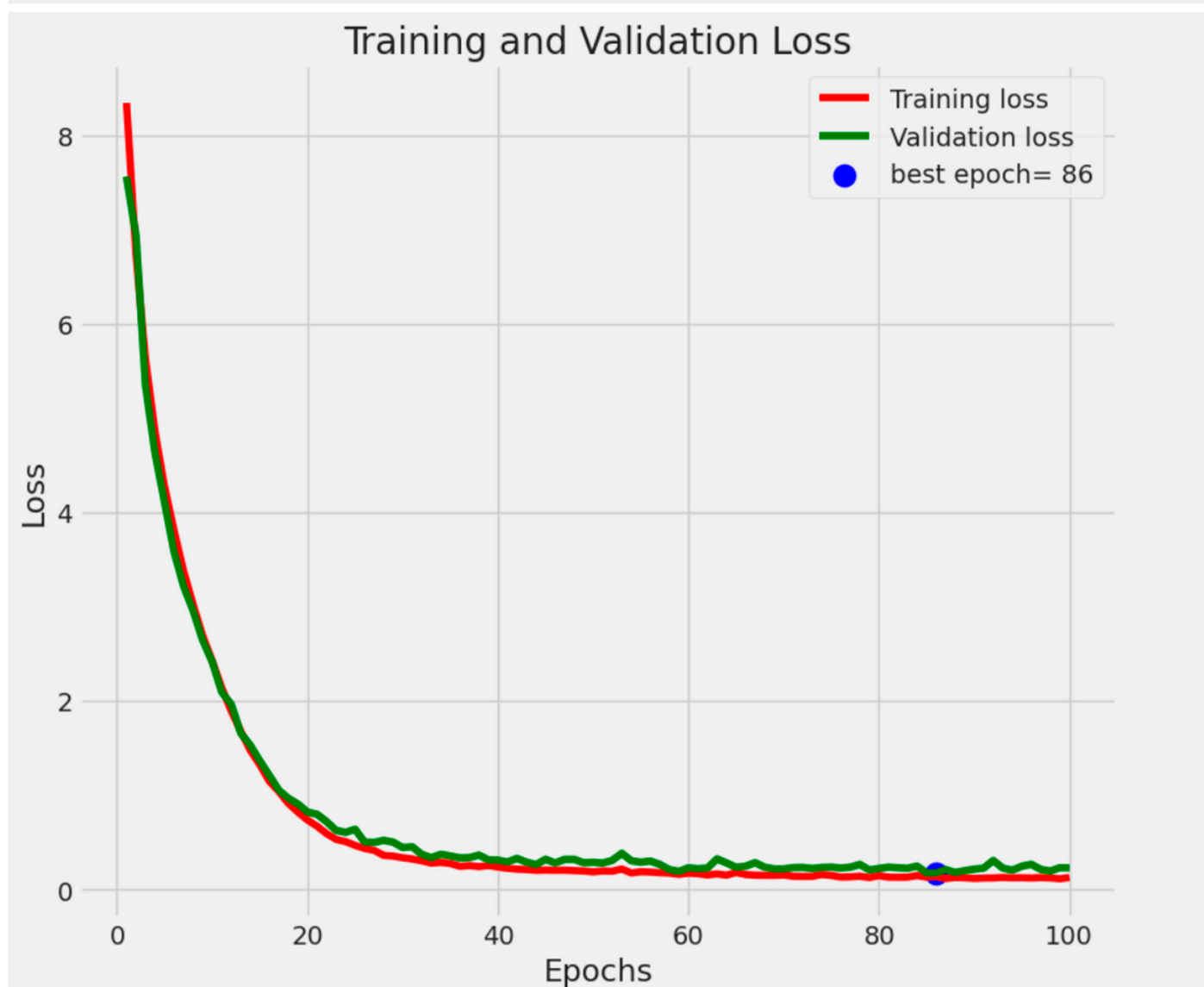
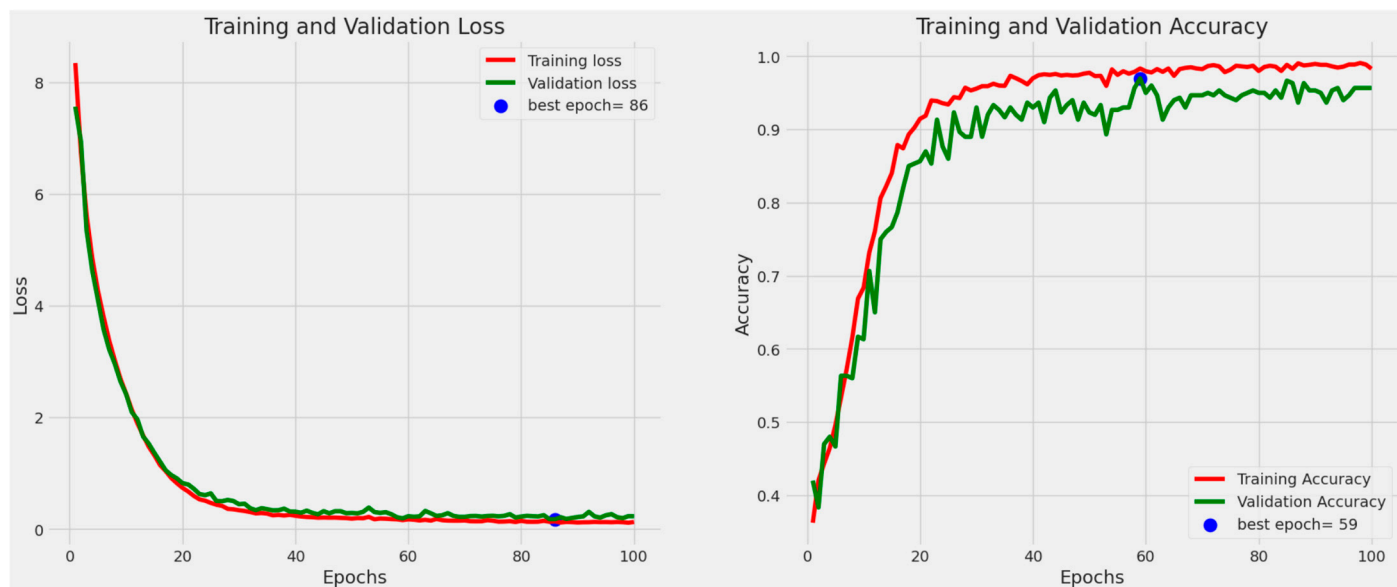
there were 8 errors in 300 tests for an accuracy of 97.33

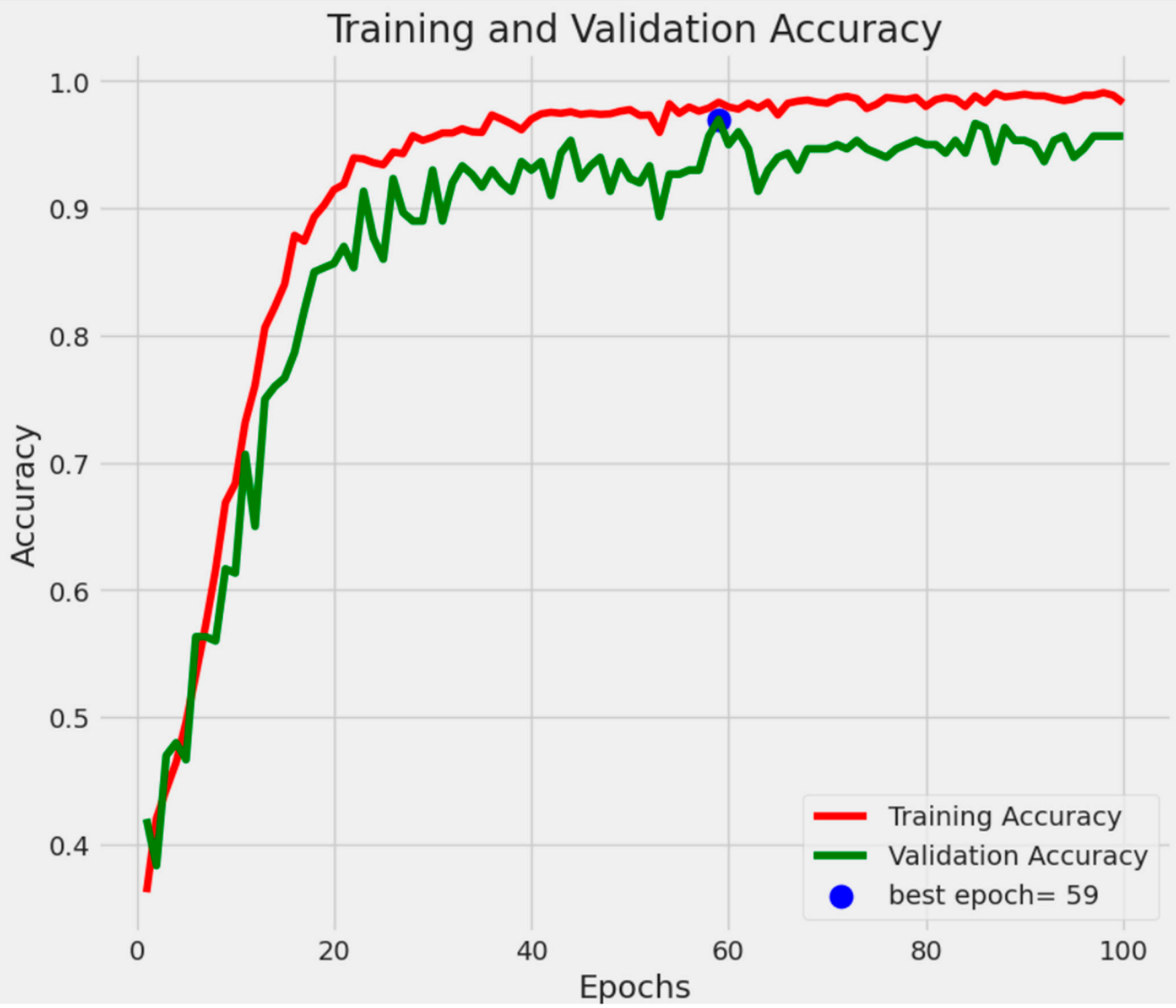
### Classification Report:

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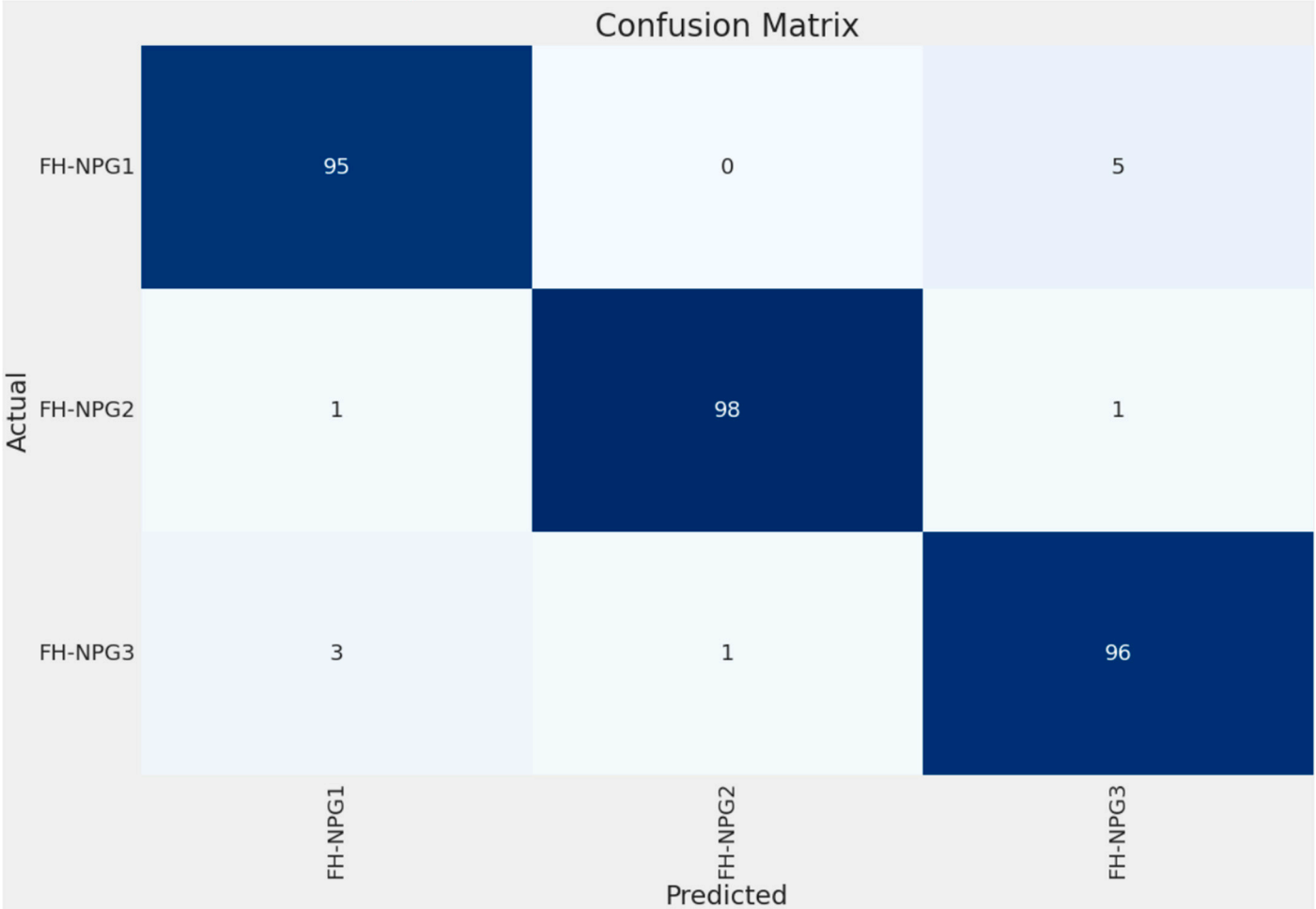
	precision	recall	f1-score	support
FH-NPG1	0.9794	0.9500	0.9645	100
FH-NPG2	1.0000	0.9700	0.9848	100
FH-NPG3	0.9434	1.0000	0.9709	100
accuracy			0.9733	300
macro avg	0.9743	0.9733	0.9734	300
weighted avg	0.9743	0.9733	0.9734	300

## EFFICIENTNET B0









there were 11 errors in 300 tests for an accuracy of 96.33

Classification Report:

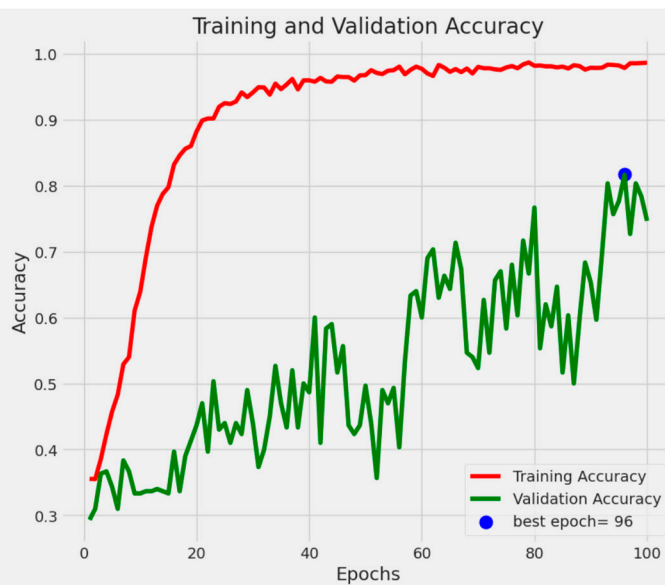
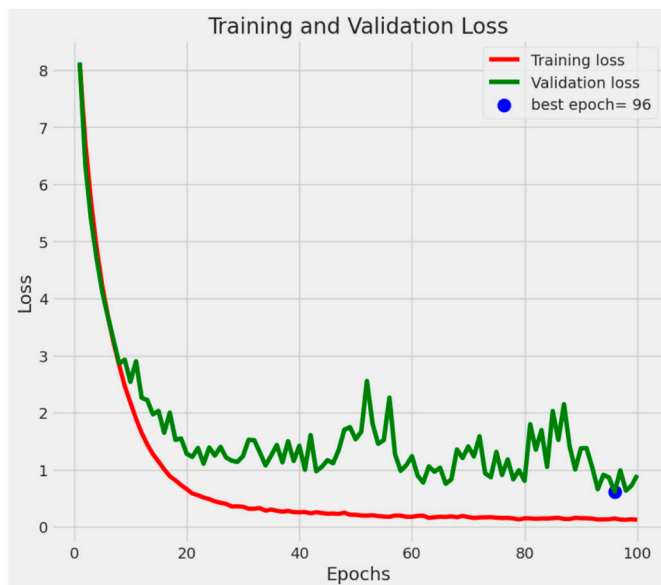
	precision	recall	f1-score	support
FH-NPG1	0.9596	0.9500	0.9548	100
FH-NPG2	0.9899	0.9800	0.9849	100
FH-NPG3	0.9412	0.9600	0.9505	100
accuracy			0.9633	300
macro avg	0.9636	0.9633	0.9634	300
weighted avg	0.9636	0.9633	0.9634	300

**XCEPTION %33.33**

**VGG16 %32.33**

**VGG19 %31.33**

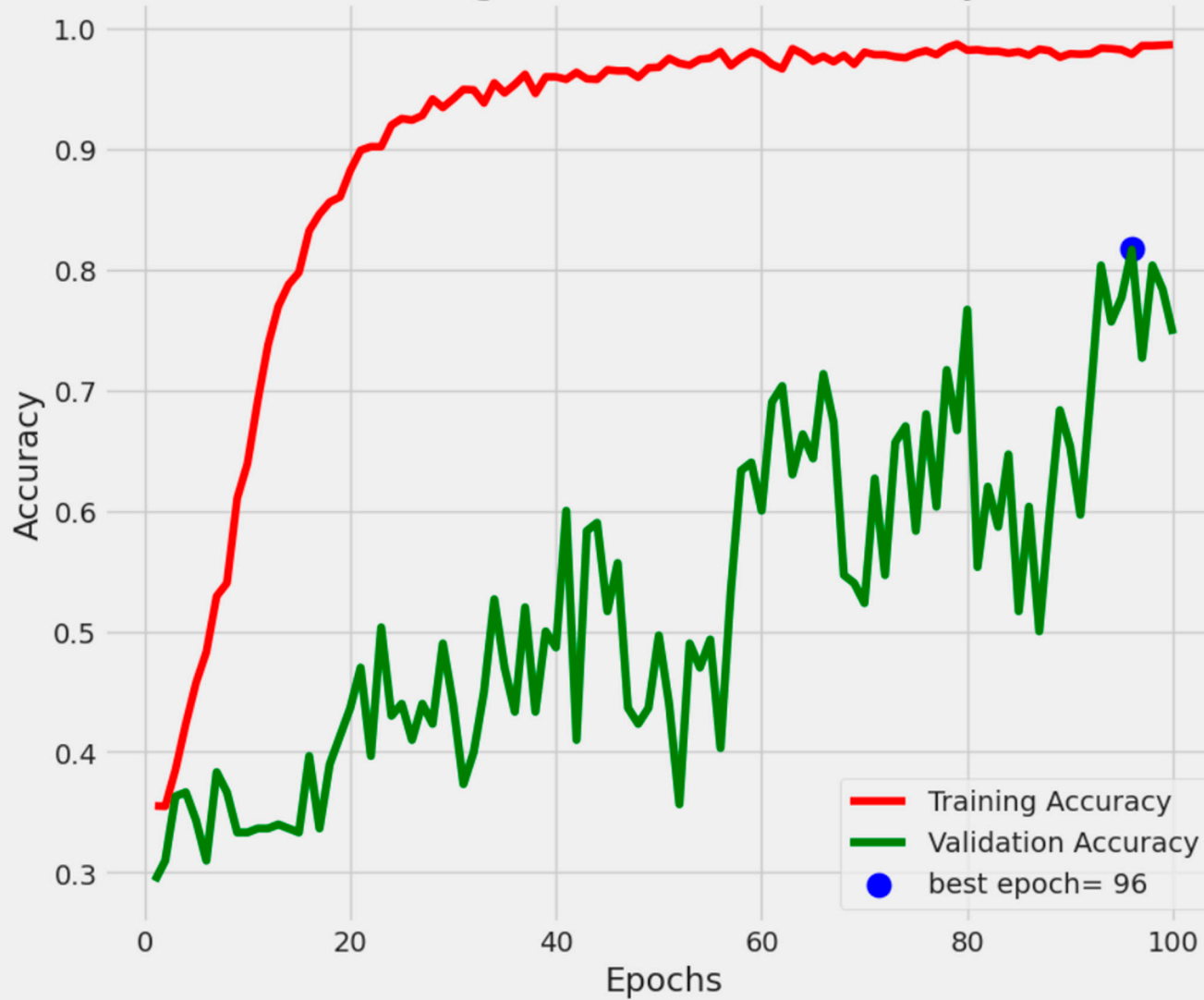
**NASNETMOBILE**

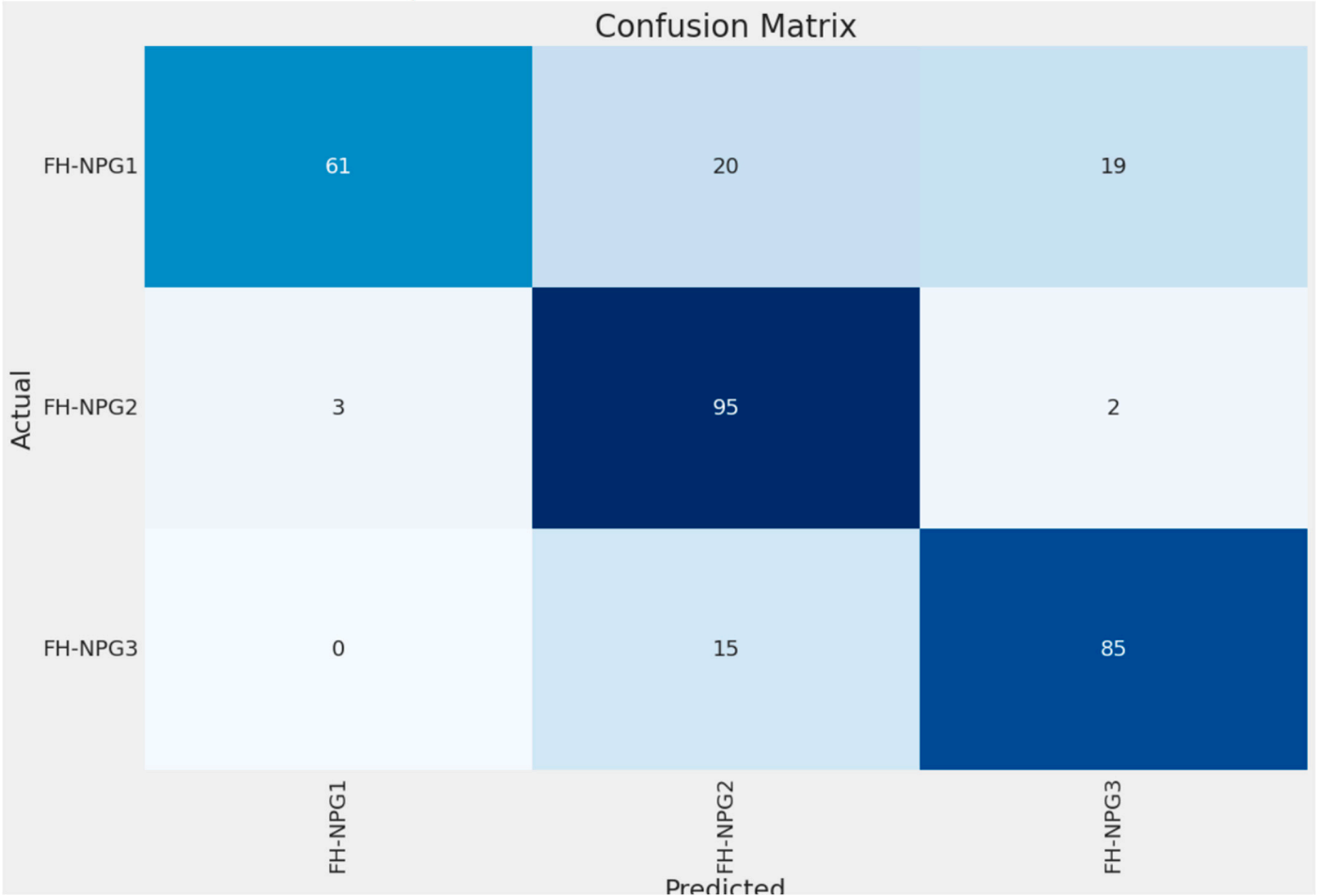


# Training and Validation Loss



Training and Validation Accuracy





there were 59 errors in 300 tests for an accuracy of 80.33

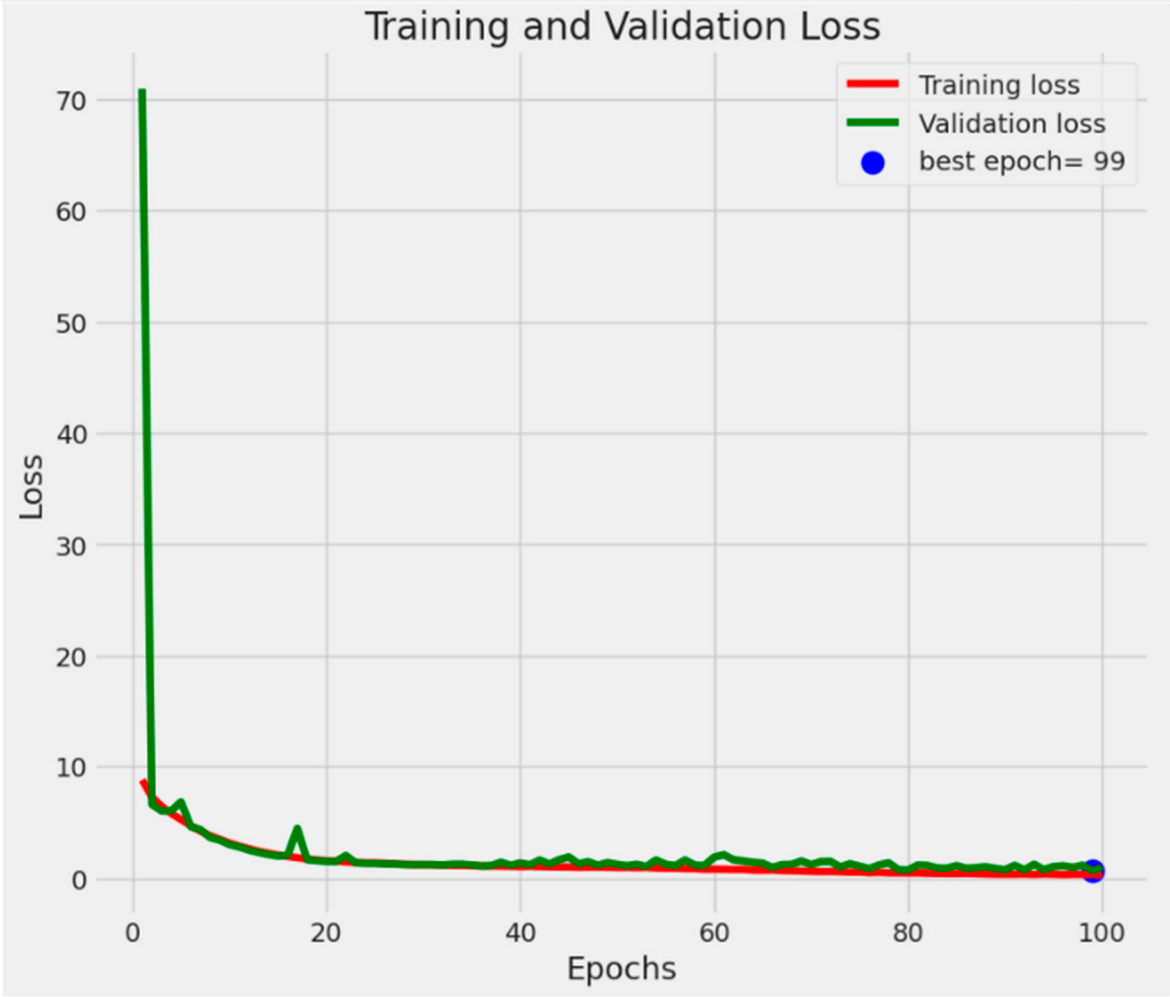
Classification Report:

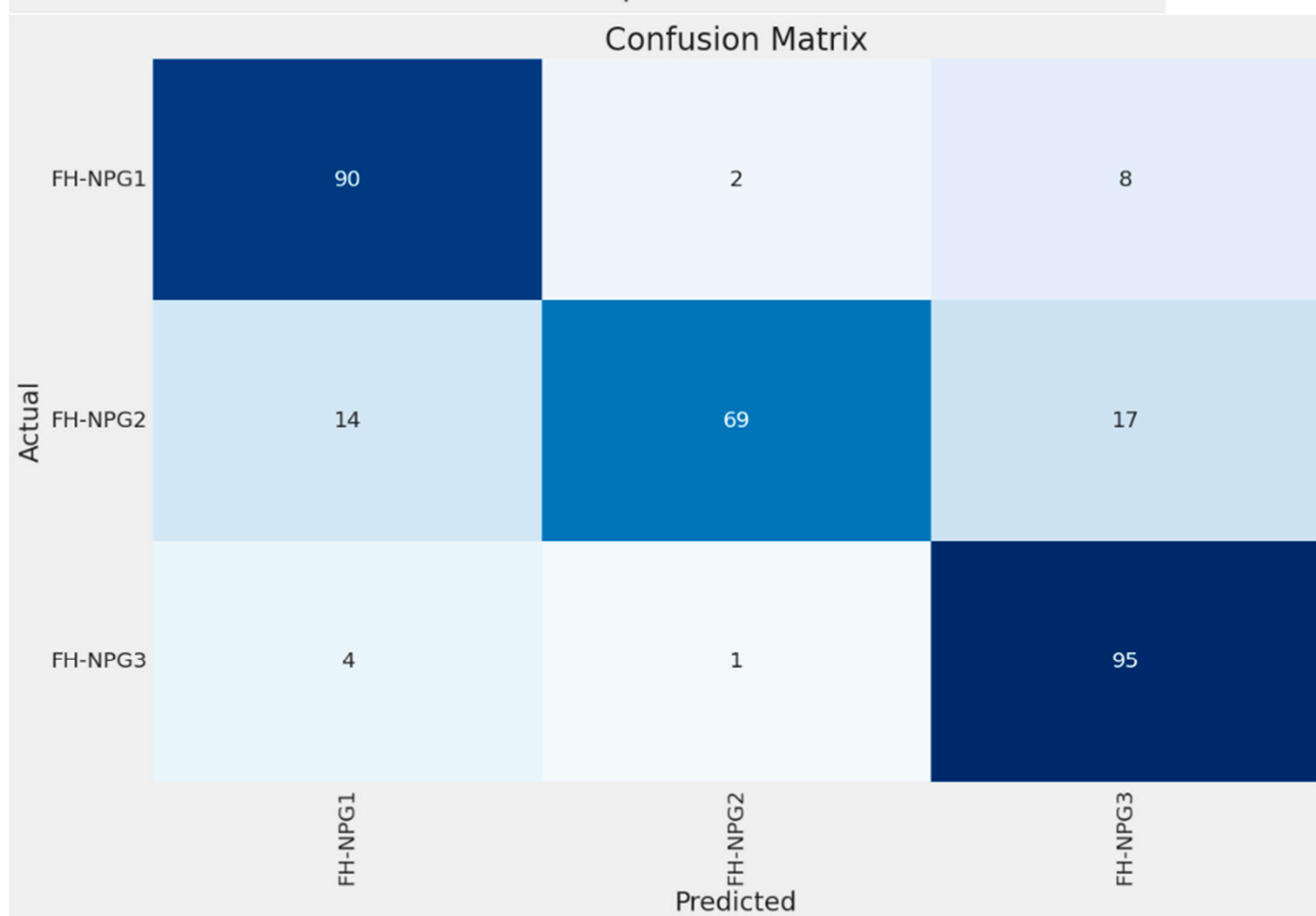
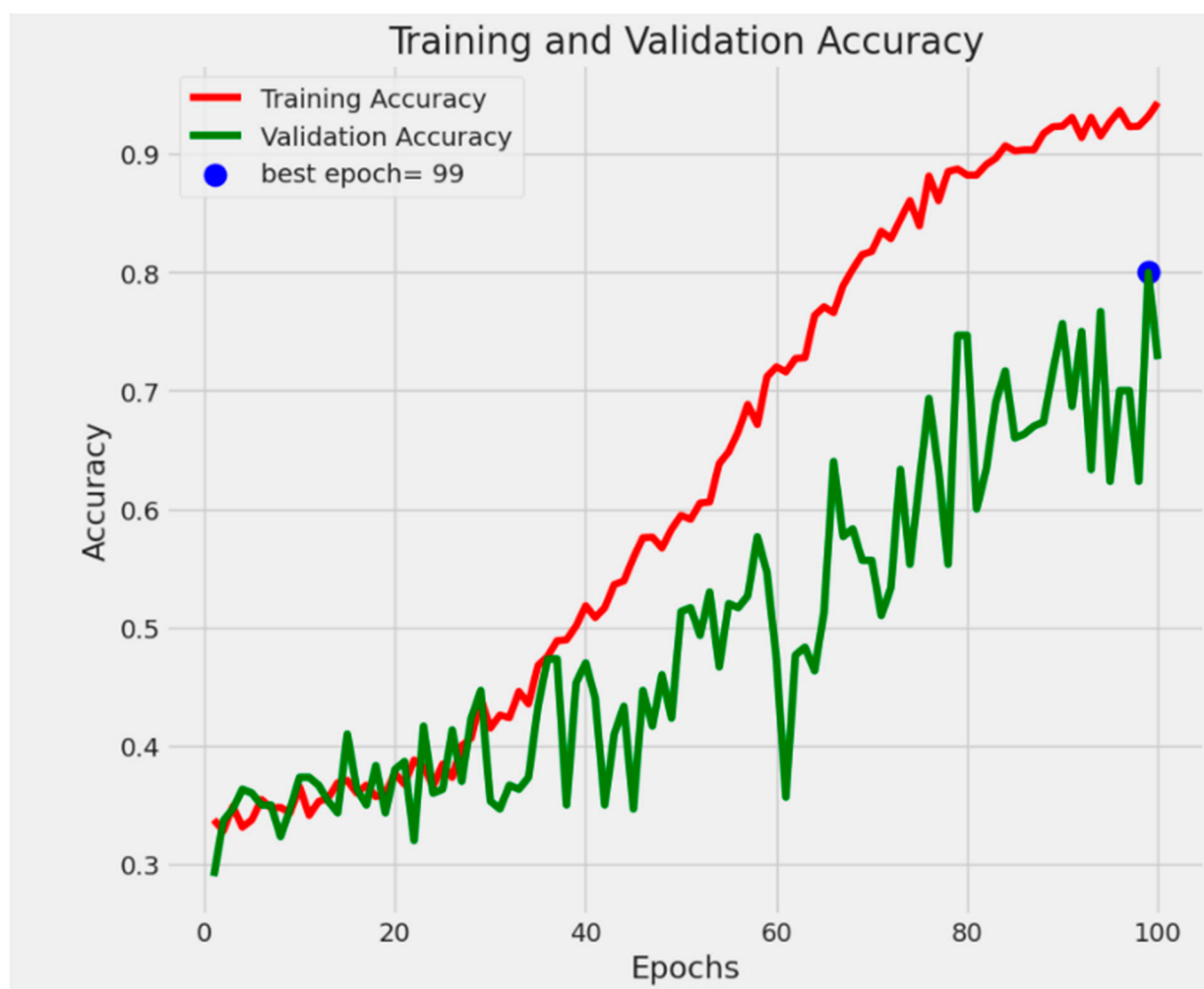
	precision	recall	f1-score	support
FH-NPG1	0.9531	0.6100	0.7439	100
FH-NPG2	0.7308	0.9500	0.8261	100
FH-NPG3	0.8019	0.8500	0.8252	100
accuracy			0.8033	300
macro avg	0.8286	0.8033	0.7984	300
weighted avg	0.8286	0.8033	0.7984	300

RESNET101: %34.67

RESNET152: %35.33

RESNET50





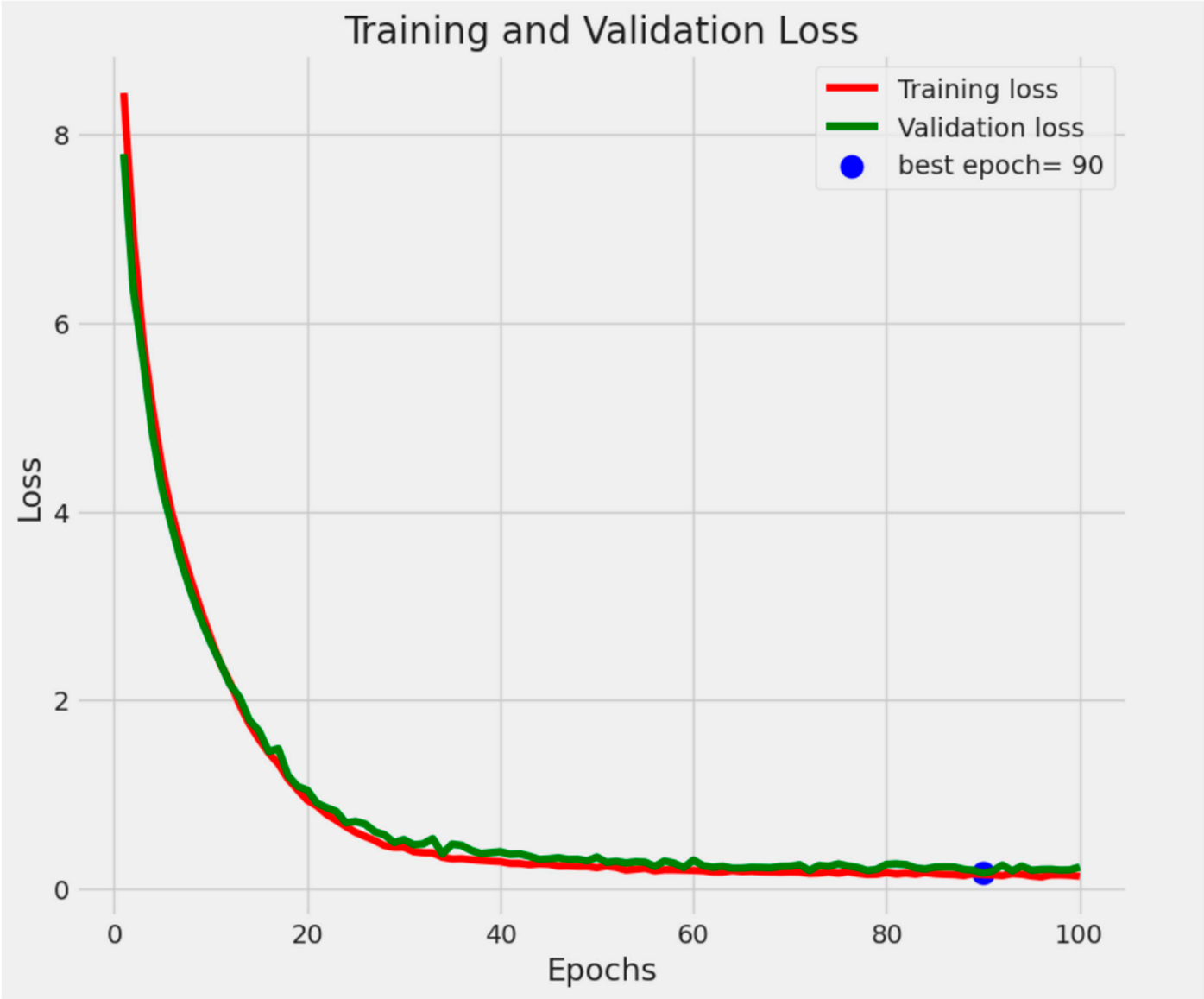
there were 46 errors in 300 tests for an accuracy of 84.67

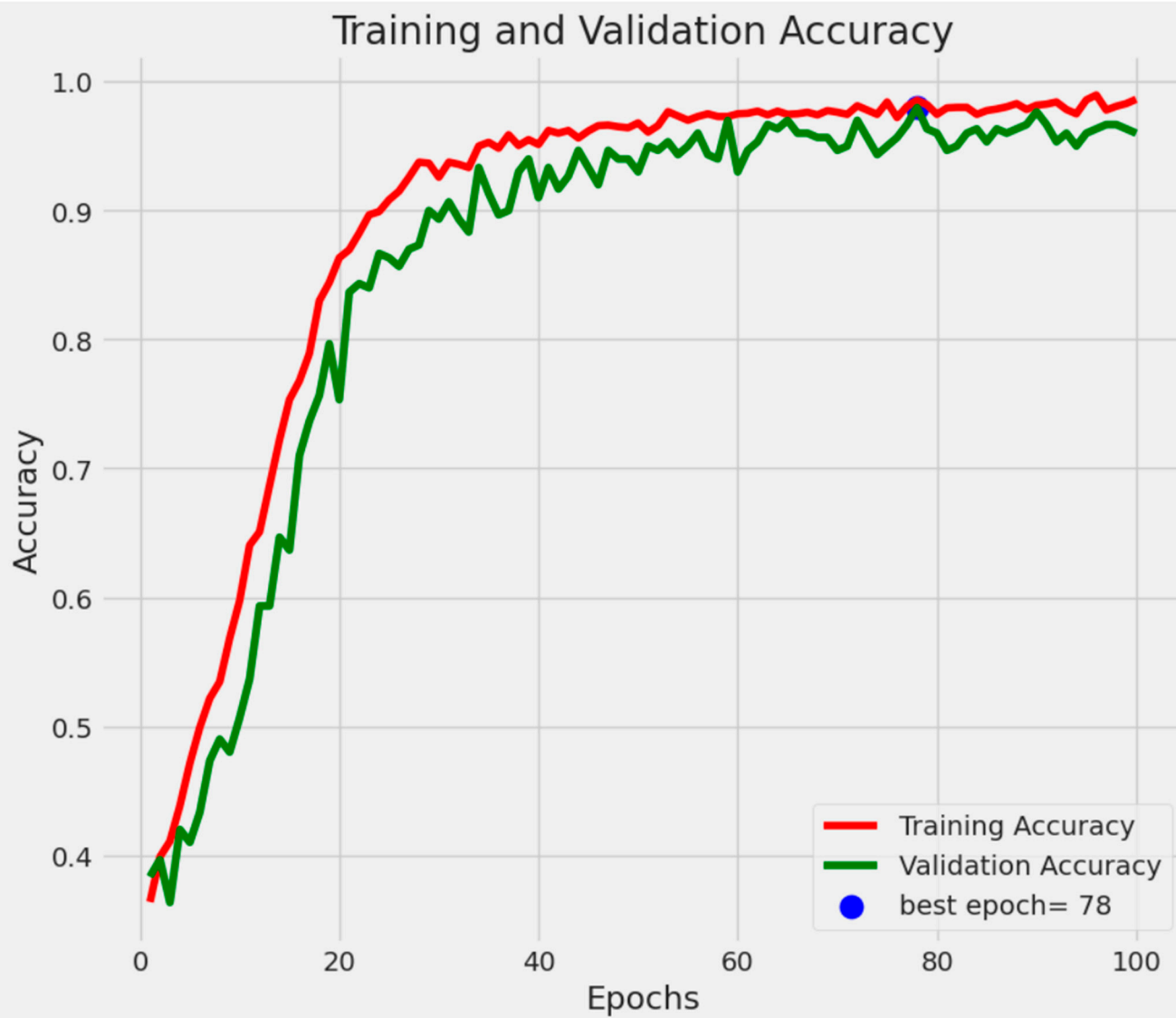
Classification Report:

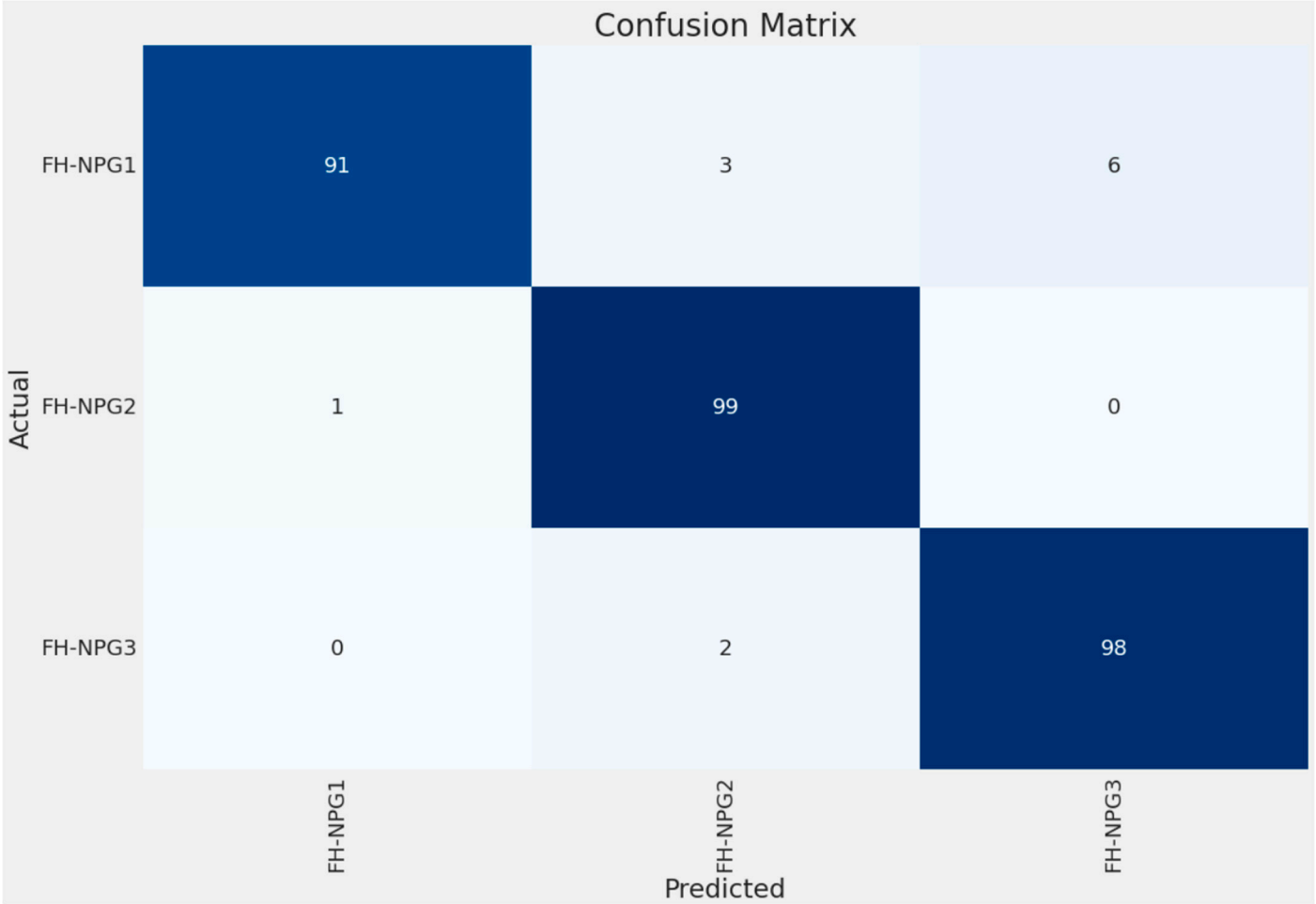
	precision	recall	f1-score	support
FH-NPG1	0.8333	0.9000	0.8654	100
FH-NPG2	0.9583	0.6900	0.8023	100
FH-NPG3	0.7917	0.9500	0.8636	100
accuracy			0.8467	300
macro avg	0.8611	0.8467	0.8438	300
weighted avg	0.8611	0.8467	0.8438	300



EFFICIENTNET V2







there were 12 errors in 300 tests for an accuracy of 96.00

Classification Report:

	precision	recall	f1-score	support
FH-NPG1	0.9891	0.9100	0.9479	100
FH-NPG2	0.9519	0.9900	0.9706	100
FH-NPG3	0.9423	0.9800	0.9608	100
accuracy			0.9600	300
macro avg	0.9611	0.9600	0.9598	300
weighted avg	0.9611	0.9600	0.9598	300