RESULTADOS CONJUNTO DE DATOS DE EDOS2023 – TASK B
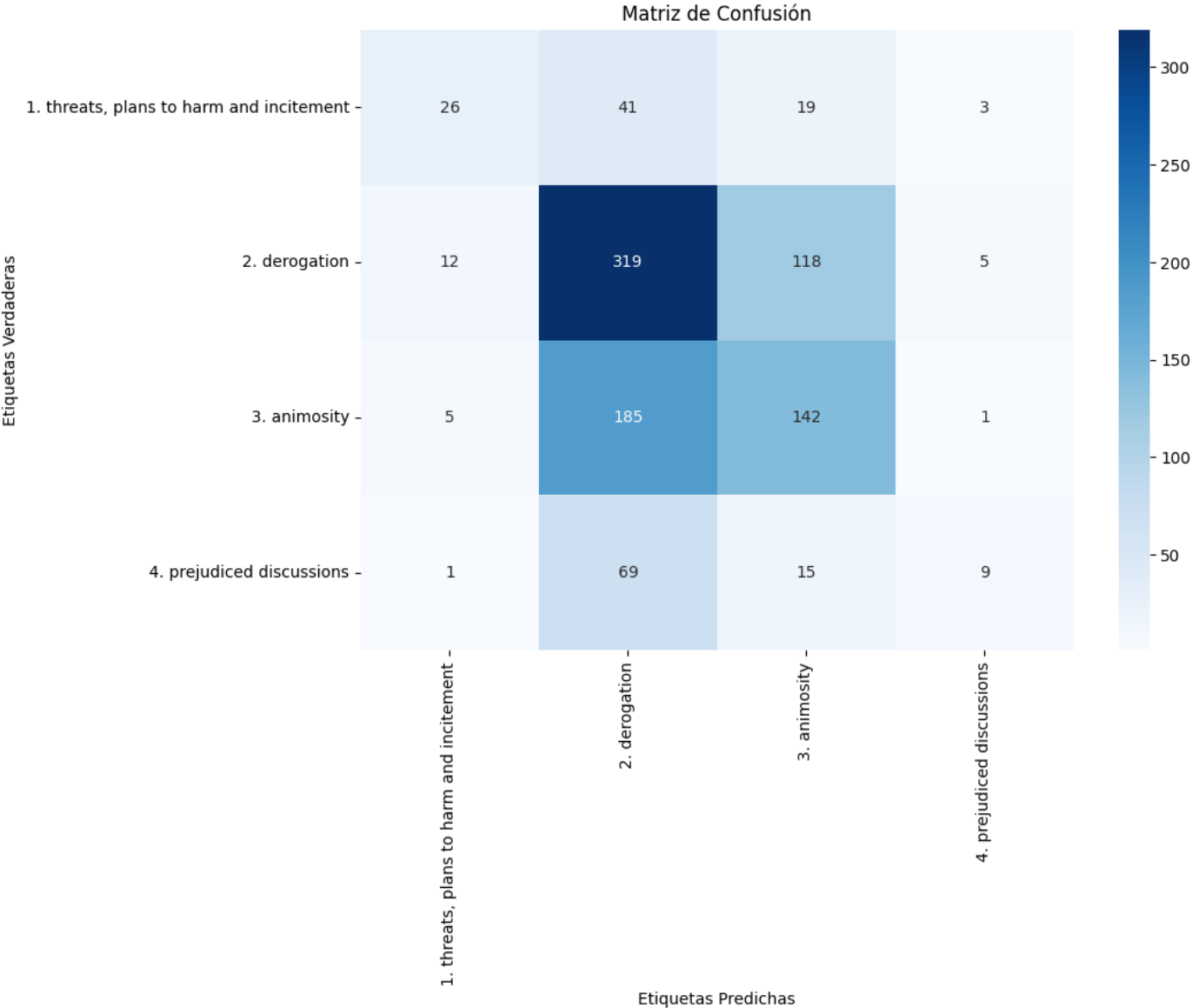
Count - Vectorizer

SVM

```
Métricas en el conjunto de prueba:
                                        precision    recall  f1-score   support

1. threats, plans to harm and incitement    0.59      0.29      0.39        89
                          2. derogation      0.52      0.70      0.60       454
                          3. animosity       0.48      0.43      0.45       333
              4. prejudiced discussions      0.50      0.10      0.16        94

                               accuracy                          0.51       970
                              macro avg       0.52      0.38      0.40       970
                           weighted avg       0.51      0.51      0.49       970

Micro-F1 Score: 0.5113
```

Matriz de Confusión

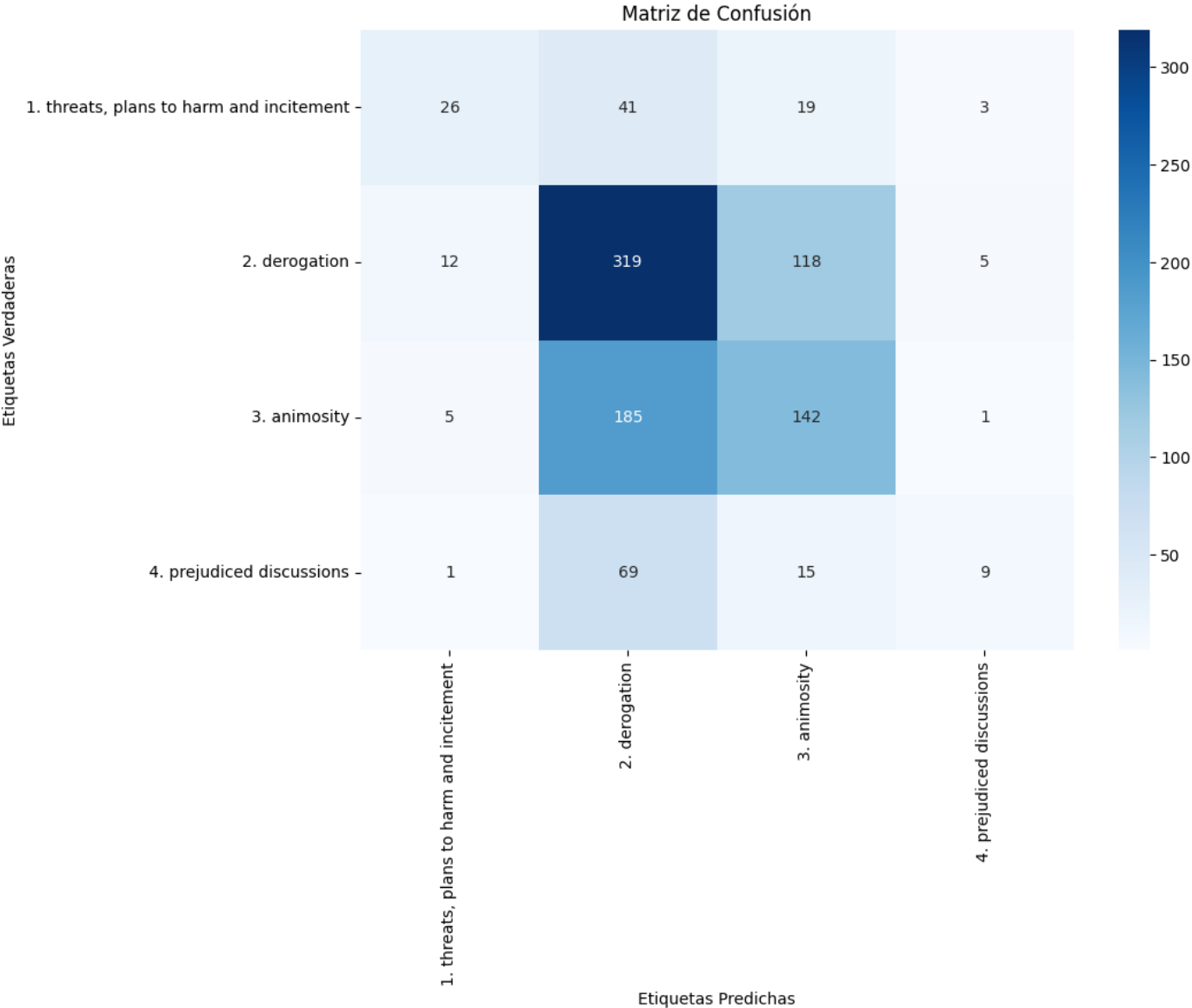RF

Métricas en el conjunto de prueba:

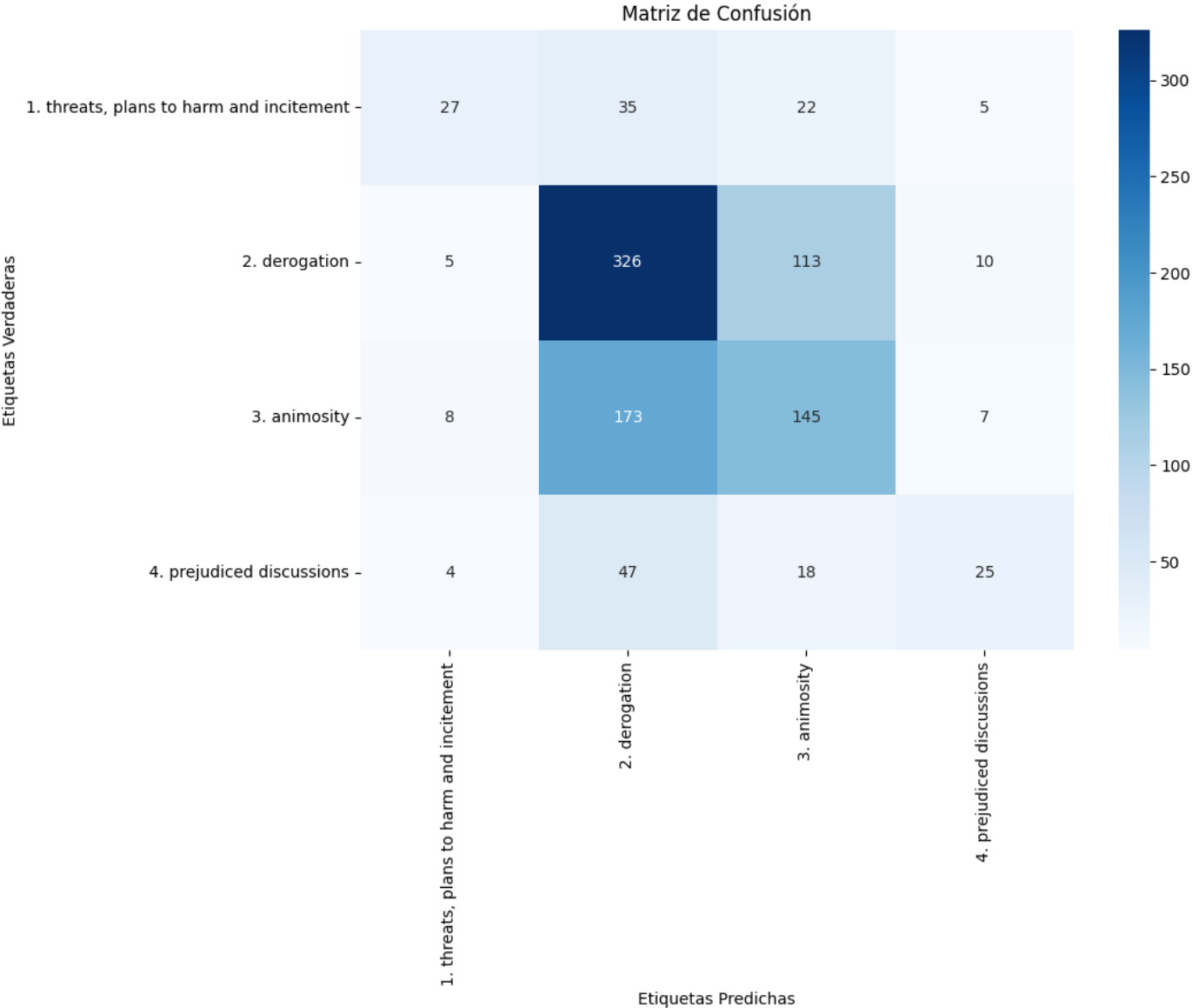|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.56	0.20	0.30	89
2. derogation	0.53	0.76	0.62	454
3. animosity	0.52	0.42	0.47	333
4. prejudiced discussions	0.38	0.09	0.14	94
accuracy			0.53	970
macro avg	0.50	0.37	0.38	970
weighted avg	0.52	0.53	0.49	970

Micro-F1 Score: 0.5258

Matriz de Confusión

XBOOTS

Métricas en el conjunto de prueba:

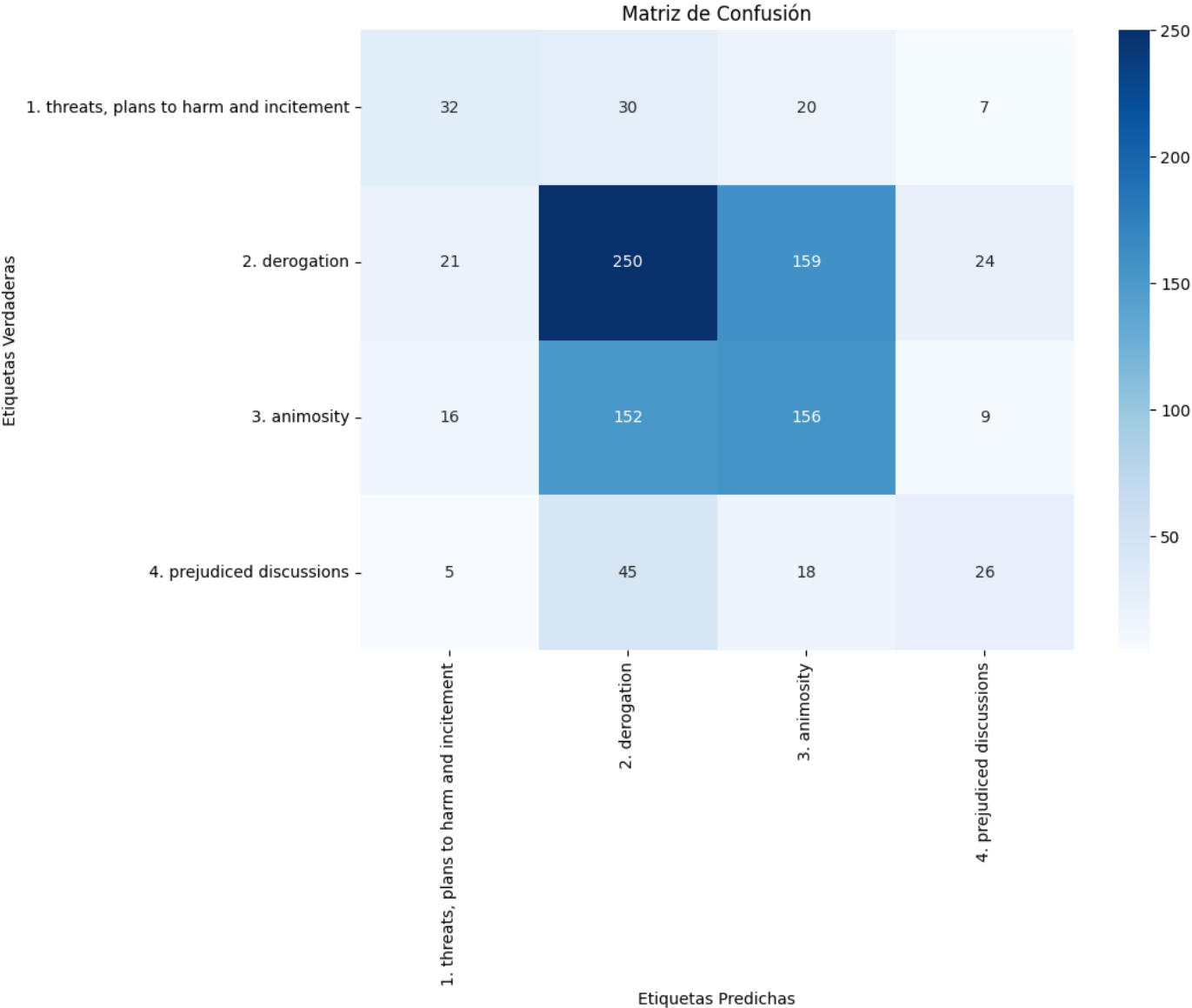|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.61	0.30	0.41	89
2. derogation	0.56	0.72	0.63	454
3. animosity	0.49	0.44	0.46	333
4. prejudiced discussions	0.53	0.27	0.35	94
accuracy			0.54	970
macro avg	0.55	0.43	0.46	970
weighted avg	0.54	0.54	0.52	970

Micro-F1 Score: 0.5392

Matriz de Confusión

TF-IDF

SVM

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.43	0.36	0.39	89
2. derogation	0.52	0.55	0.54	454
3. animosity	0.44	0.47	0.45	333
4. prejudiced discussions	0.39	0.28	0.33	94
accuracy			0.48	970
macro avg	0.45	0.41	0.43	970
weighted avg	0.47	0.48	0.48	970

Micro-F1 Score: 0.4784

Matriz de Confusión

RF

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.00	0.00	0.00	89
2. derogation	0.47	0.98	0.63	454
3. animosity	0.33	0.02	0.03	333
4. prejudiced discussions	0.00	0.00	0.00	94
accuracy			0.46	970
macro avg	0.20	0.25	0.17	970
weighted avg	0.33	0.46	0.31	970

Micro-F1 Score: 0.4649

Matriz de Confusión

XBOOST
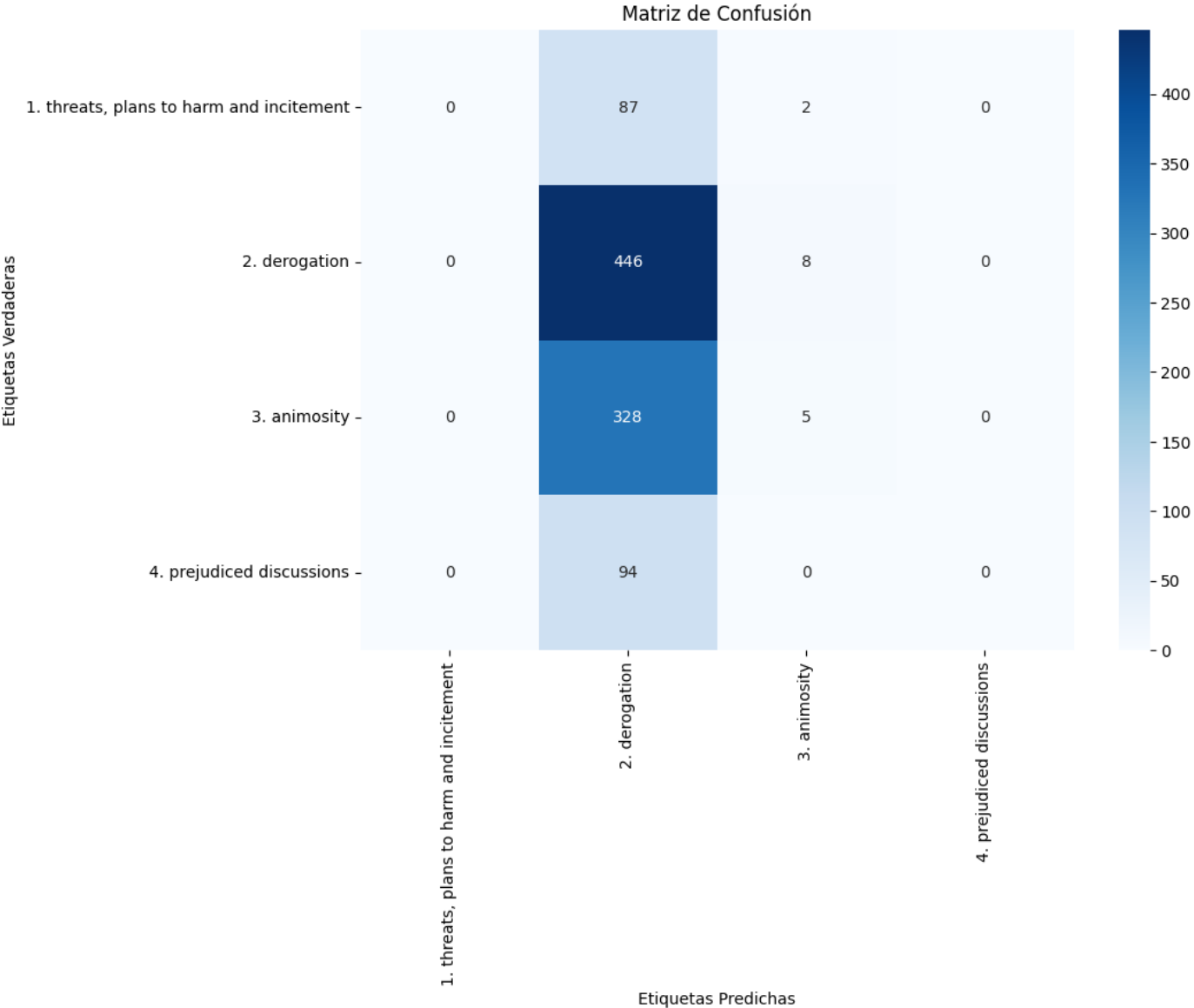
Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.56	0.25	0.34	89
2. derogation	0.53	0.66	0.59	454
3. animosity	0.46	0.44	0.45	333
4. prejudiced discussions	0.43	0.19	0.26	94
accuracy			0.50	970
macro avg	0.49	0.39	0.41	970
weighted avg	0.50	0.50	0.49	970

Micro-F1 Score: 0.5031

Matriz de Confusión

word2vec-google-news-300
SVM

Métricas en el conjunto de prueba:

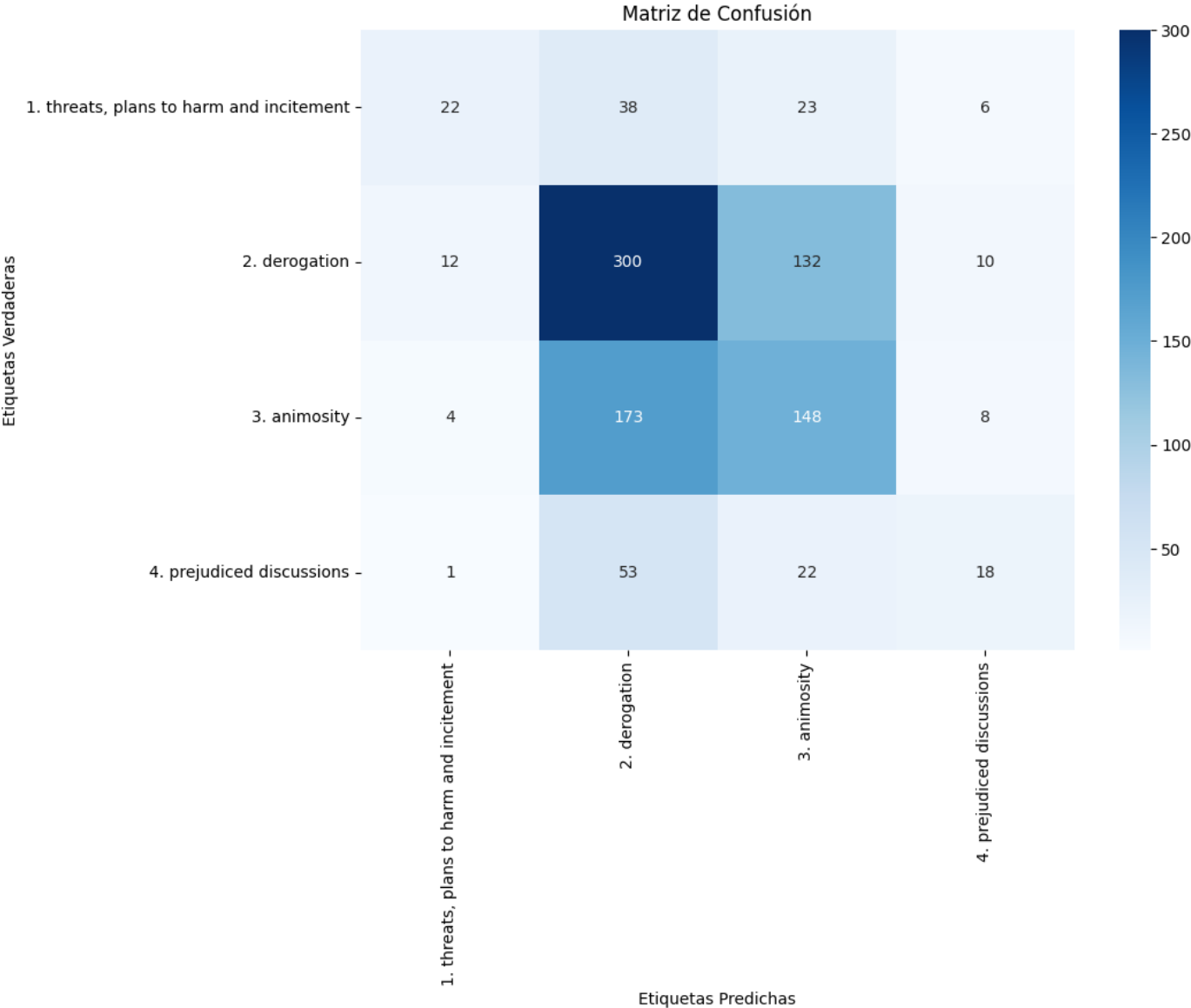|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.90	0.10	0.18	89
2. derogation	0.48	0.95	0.64	454
3. animosity	0.53	0.09	0.16	333
4. prejudiced discussions	0.00	0.00	0.00	94
accuracy			0.49	970
macro avg	0.48	0.29	0.24	970
weighted avg	0.49	0.49	0.37	970

Micro-F1 Score: 0.4856

Matriz de Confusión

RF

Métricas en el conjunto de prueba:

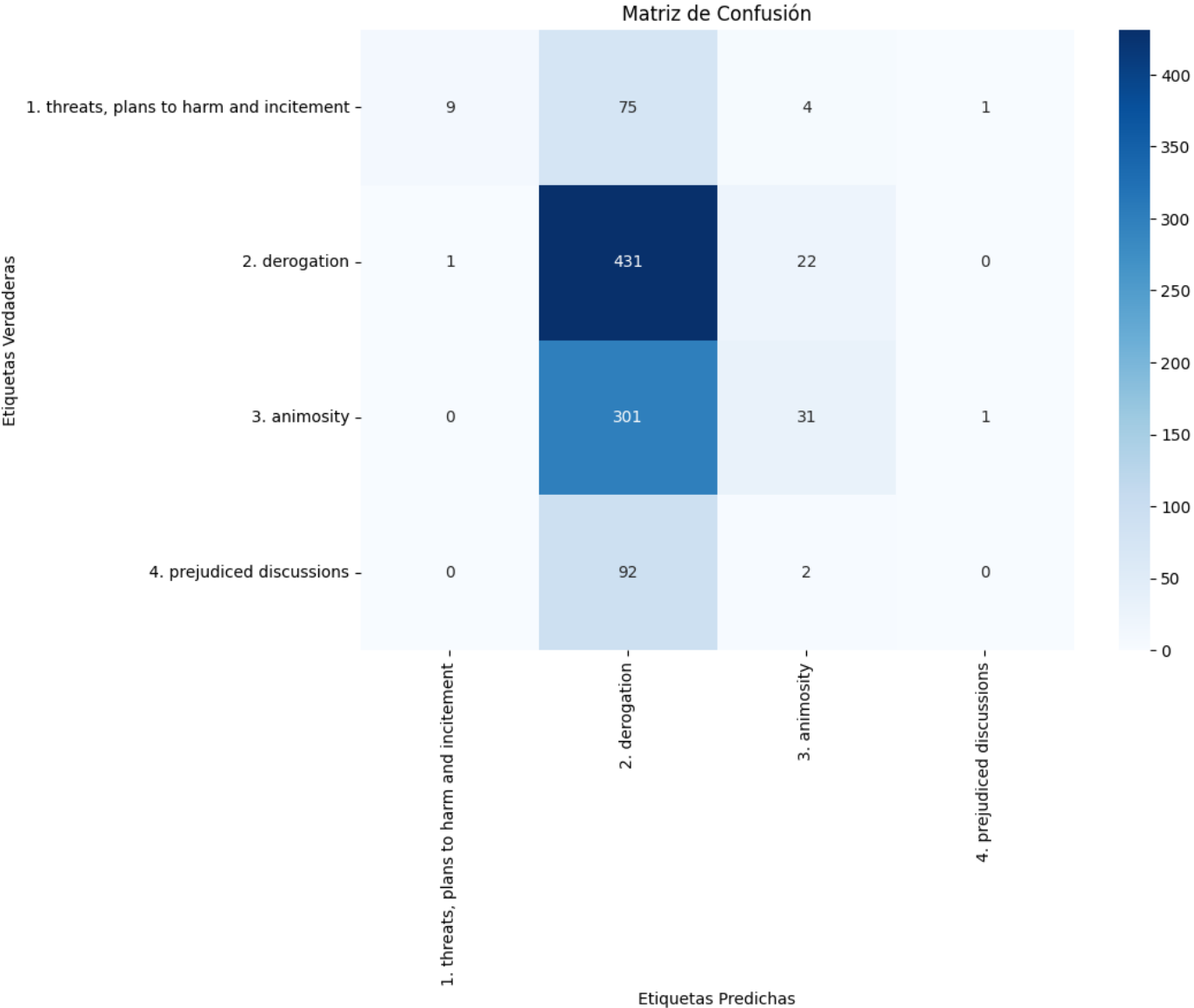|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	1.00	0.01	0.02	89
2. derogation	0.49	0.88	0.63	454
3. animosity	0.49	0.21	0.30	333
4. prejudiced discussions	0.60	0.03	0.06	94
accuracy			0.49	970
macro avg	0.65	0.28	0.25	970
weighted avg	0.55	0.49	0.40	970

Micro-F1 Score: 0.4897

Matriz de Confusión

XBOOTS

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.58	0.24	0.34	89
2. derogation	0.50	0.73	0.59	454
3. animosity	0.46	0.33	0.38	333
4. prejudiced discussions	0.67	0.26	0.37	94
accuracy			0.50	970
macro avg	0.55	0.39	0.42	970
weighted avg	0.51	0.50	0.48	970

Micro-F1 Score: 0.5010

Word2Vec-100

SVC

Métricas en el conjunto de prueba:

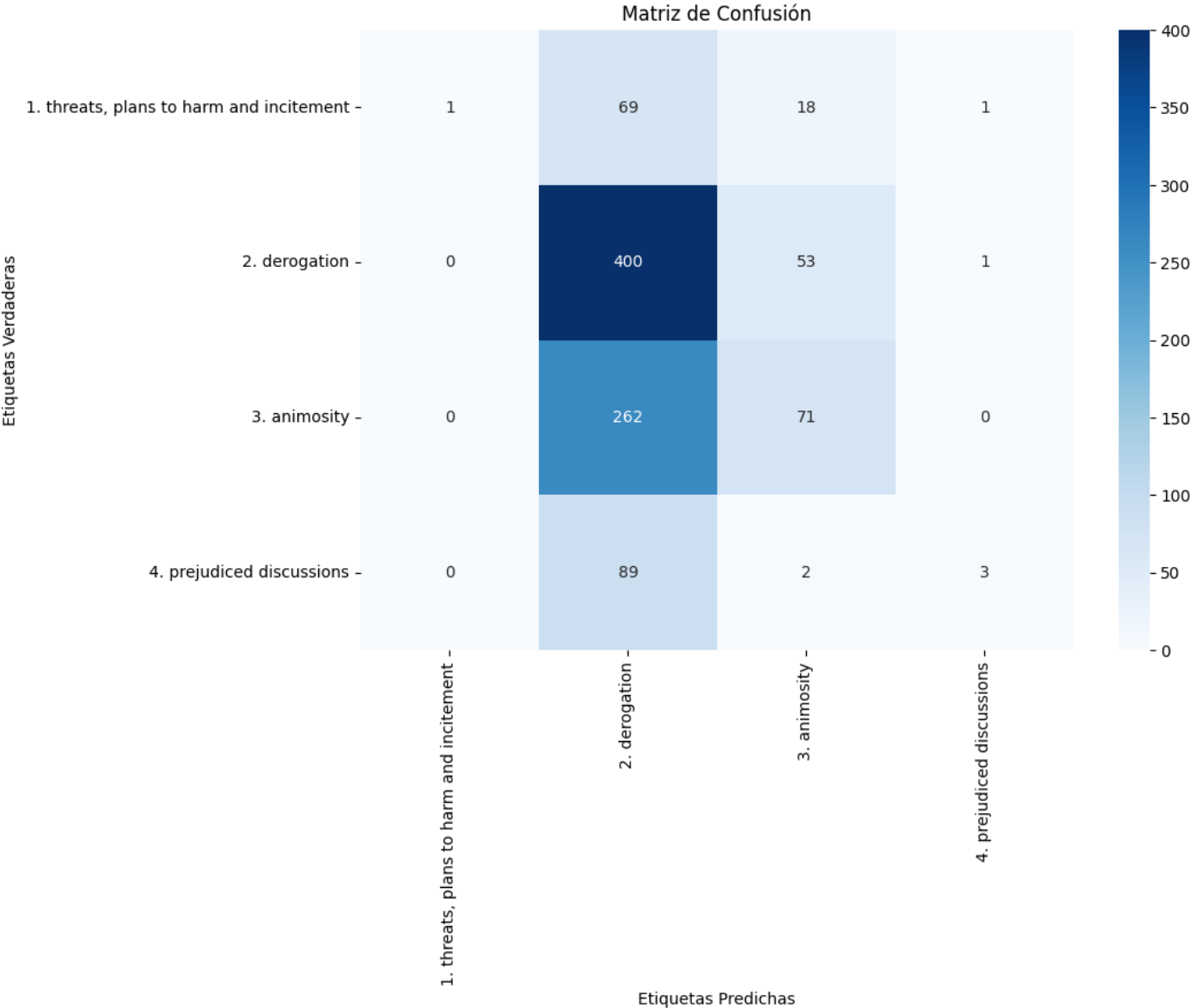|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.00	0.00	0.00	89
2. derogation	0.47	1.00	0.64	454
3. animosity	0.00	0.00	0.00	333
4. prejudiced discussions	0.00	0.00	0.00	94
accuracy			0.47	970
macro avg	0.12	0.25	0.16	970
weighted avg	0.22	0.47	0.30	970

Micro-F1 Score: 0.4680

Matriz de Confusión

RF

Métricas en el conjunto de prueba:

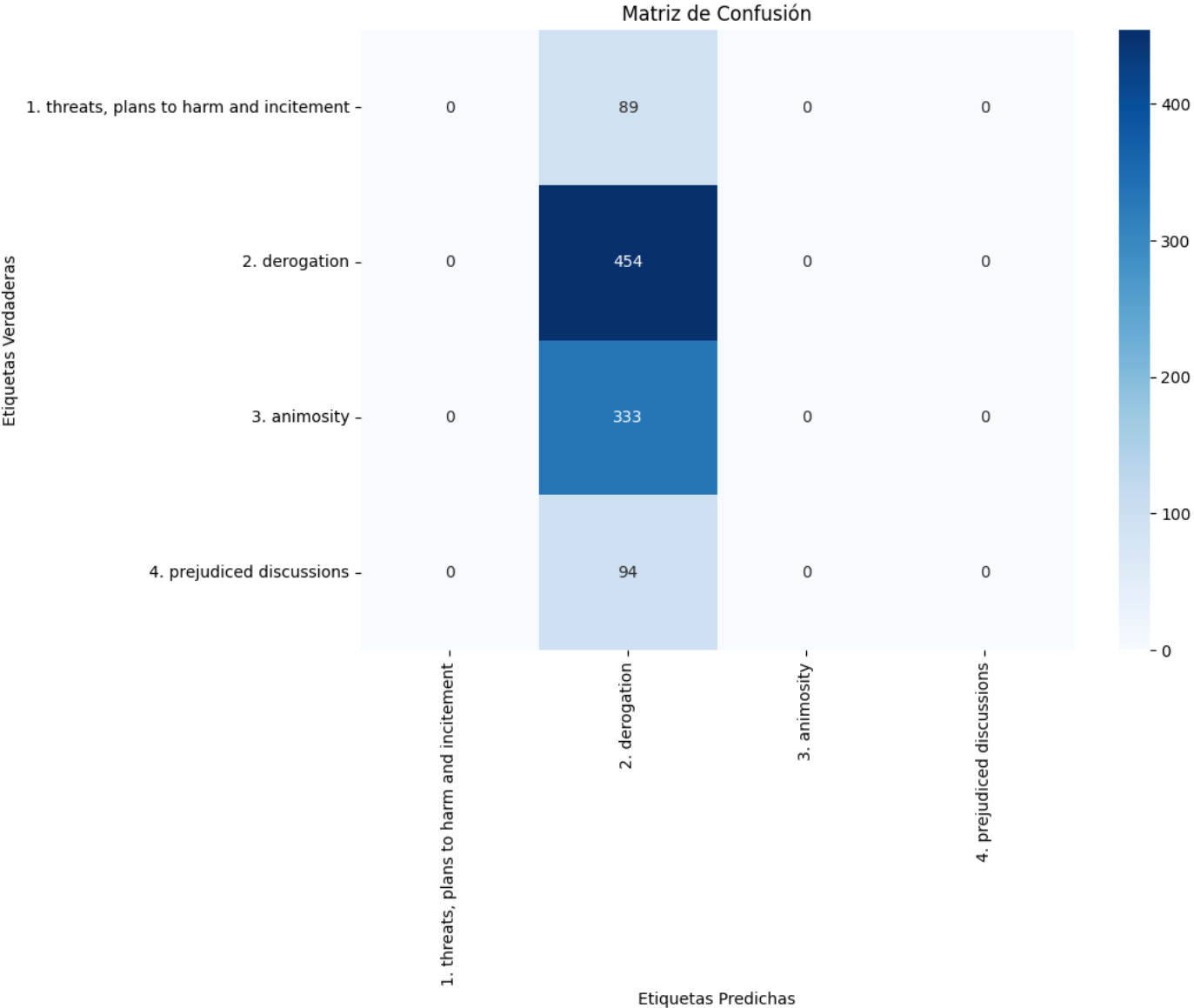|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.67	0.04	0.08	89
2. derogation	0.48	0.83	0.61	454
3. animosity	0.37	0.19	0.25	333
4. prejudiced discussions	0.00	0.00	0.00	94
accuracy			0.46	970
macro avg	0.38	0.27	0.23	970
weighted avg	0.41	0.46	0.38	970

Micro-F1 Score: 0.4588

Matriz de Confusión
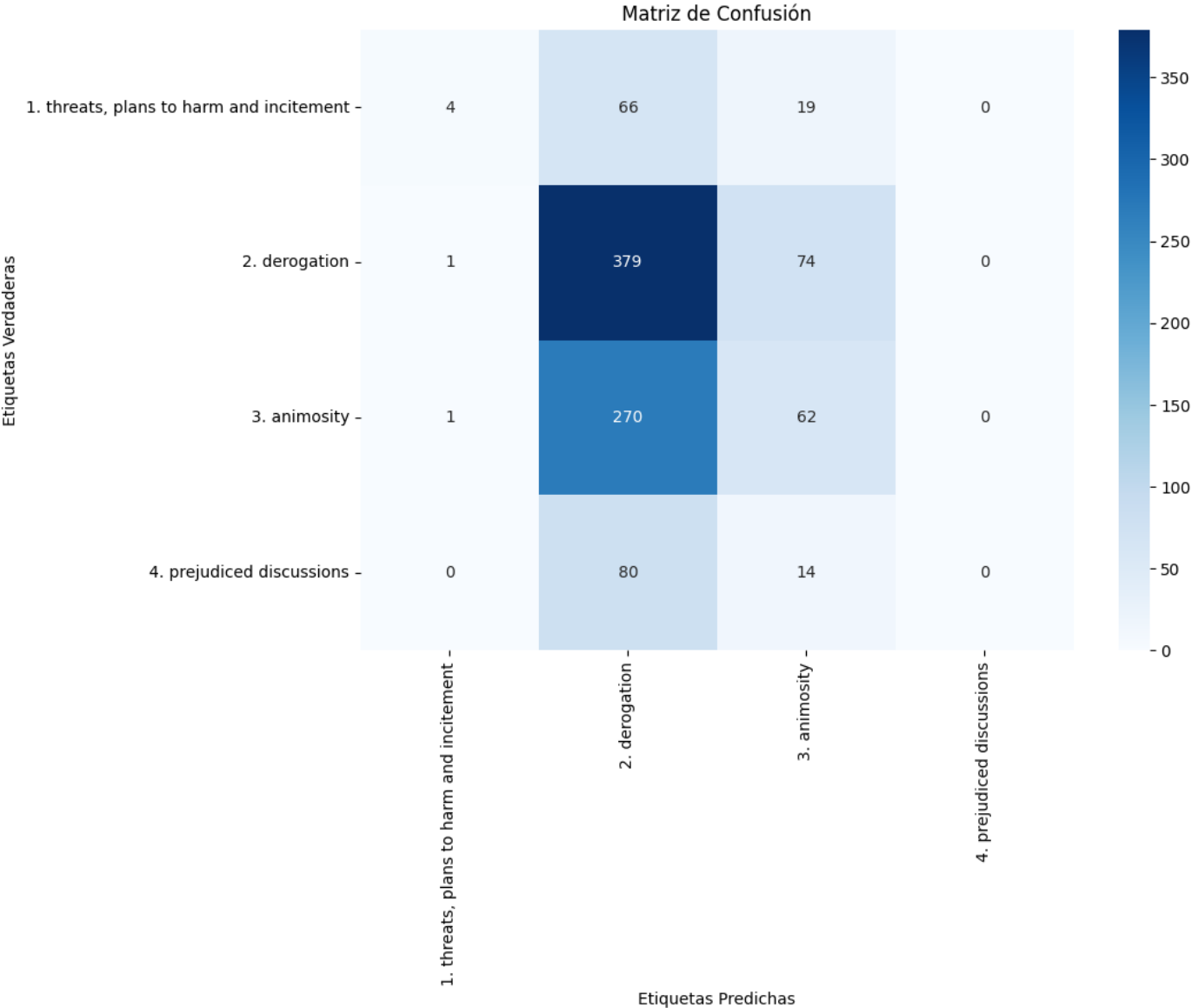
```
XBoot

Métricas en el conjunto de prueba:
                                      precision    recall  f1-score    support

1. threats, plans to harm and incitement    0.38      0.03      0.06         89
                          2. derogation      0.47      0.70      0.56        454
                           3. animosity      0.36      0.30      0.33        333
              4. prejudiced discussions      0.09      0.01      0.02         94

                               accuracy                         0.43        970
                              macro avg      0.32      0.26      0.24        970
                           weighted avg      0.39      0.43      0.38        970

Micro-F1 Score: 0.4340
```

Matriz de Confusión

```
Word2vect-300

SVC

Métricas en el conjunto de prueba:
                                        precision    recall   f1-score    support

1. threats, plans to harm and incitement    0.00       0.00      0.00          89
                         2. derogation       0.47       0.99      0.63         454
                          3. animosity       0.00       0.00      0.00         333
            4. prejudiced discussions        0.00       0.00      0.00          94

                              accuracy                            0.46         970
                             macro avg       0.12       0.25      0.16         970
                          weighted avg       0.22       0.46      0.30         970

Micro-F1 Score: 0.4649
```

Matriz de Confusión

```
RF

Métricas en el conjunto de prueba:
                                          precision    recall   f1-score    support

1. threats, plans to harm and incitement      0.30      0.03       0.06         89
                          2. derogation        0.49      0.77       0.60        454
                           3. animosity        0.39      0.29       0.33        333
               4. prejudiced discussions       0.00      0.00       0.00         94

                               accuracy                            0.46        970
                              macro avg        0.29      0.27       0.25        970
                           weighted avg        0.39      0.46       0.40        970

Micro-F1 Score: 0.4608
```

Matriz de Confusión

XBoots

Métricas en el conjunto de prueba:

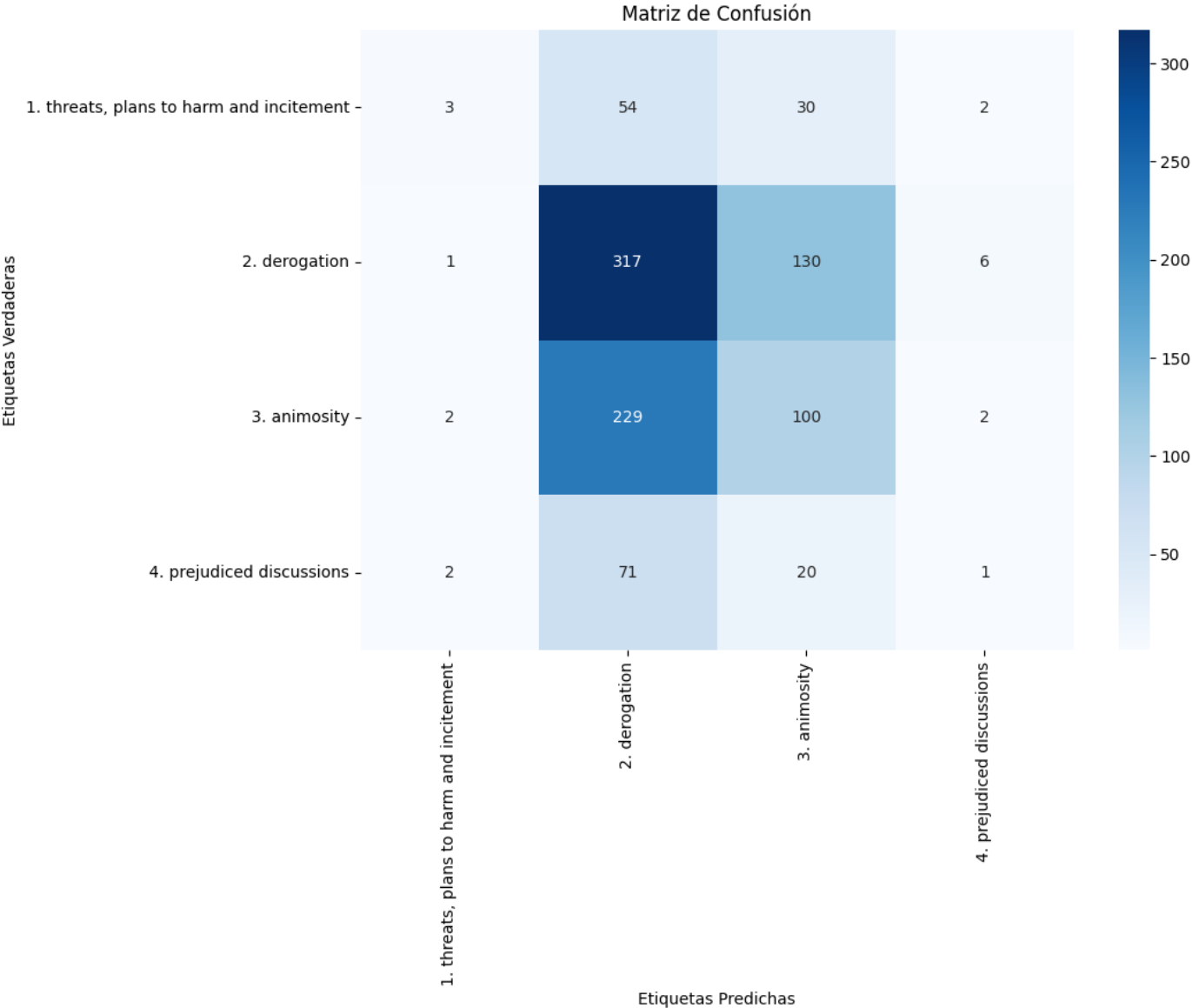|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.25	0.03	0.06	89
2. derogation	0.49	0.75	0.60	454
3. animosity	0.38	0.30	0.34	333
4. prejudiced discussions	0.00	0.00	0.00	94
accuracy			0.46	970
macro avg	0.28	0.27	0.25	970
weighted avg	0.38	0.46	0.40	970

Micro-F1 Score: 0.4588
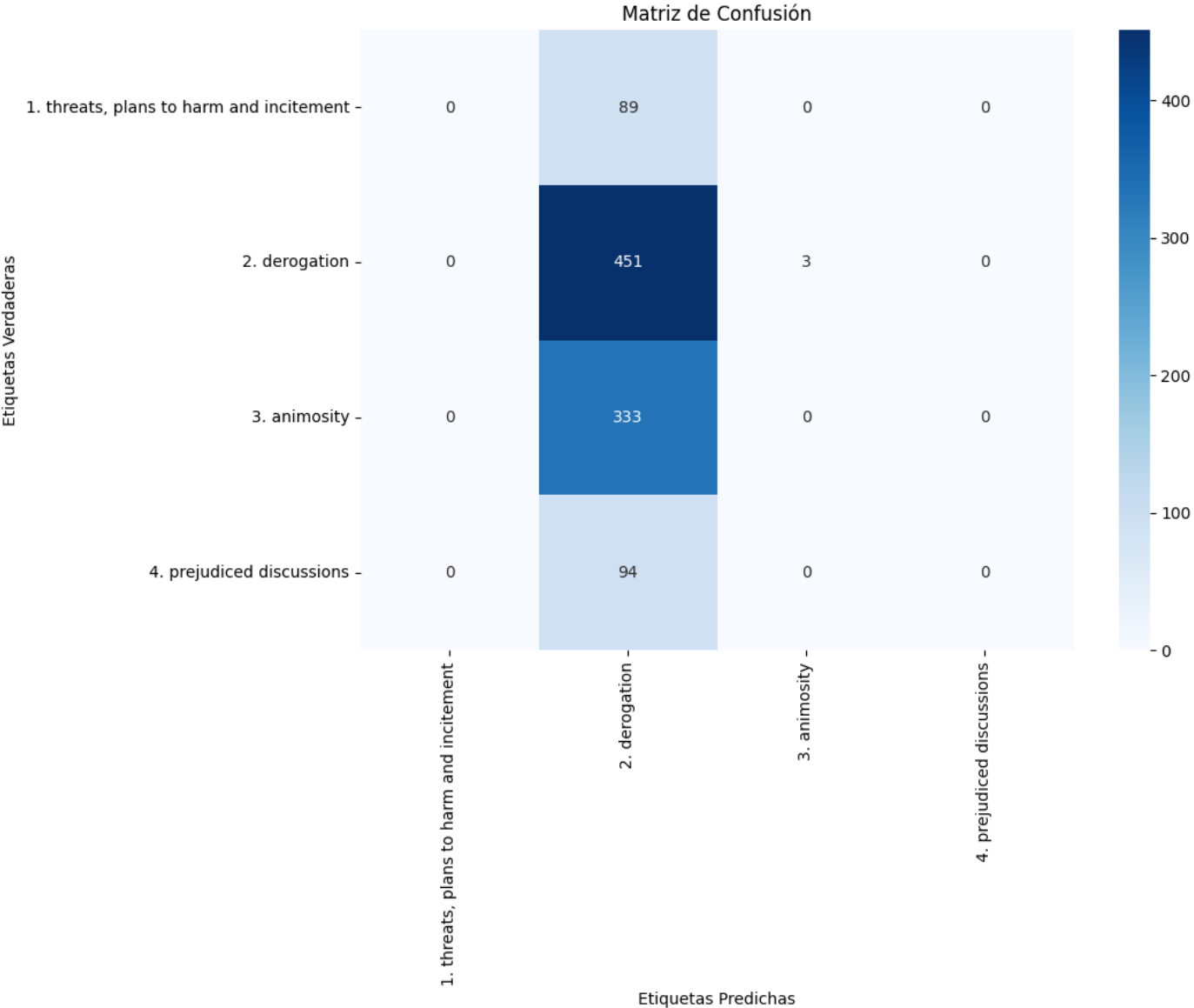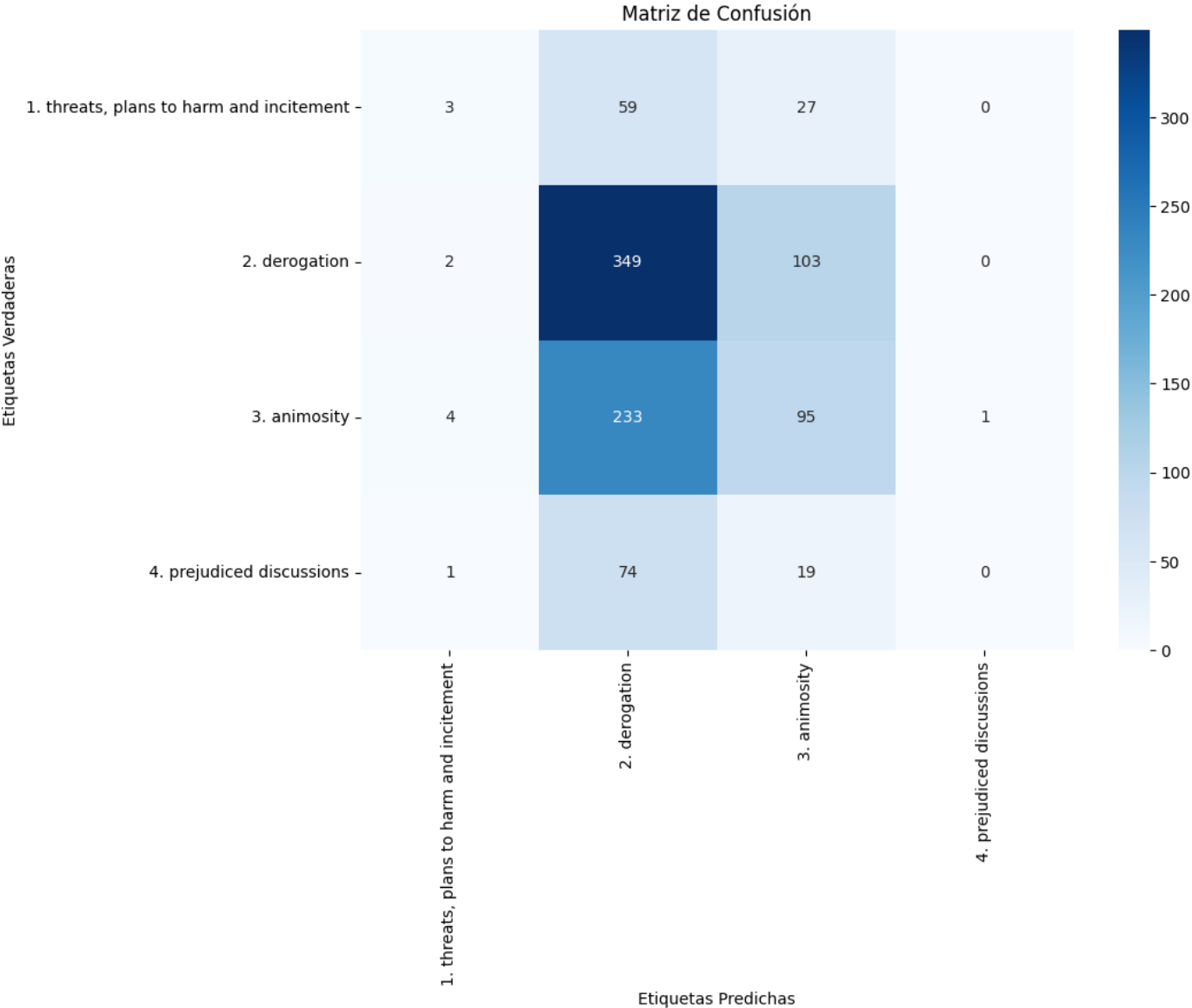
Matriz de Confusión
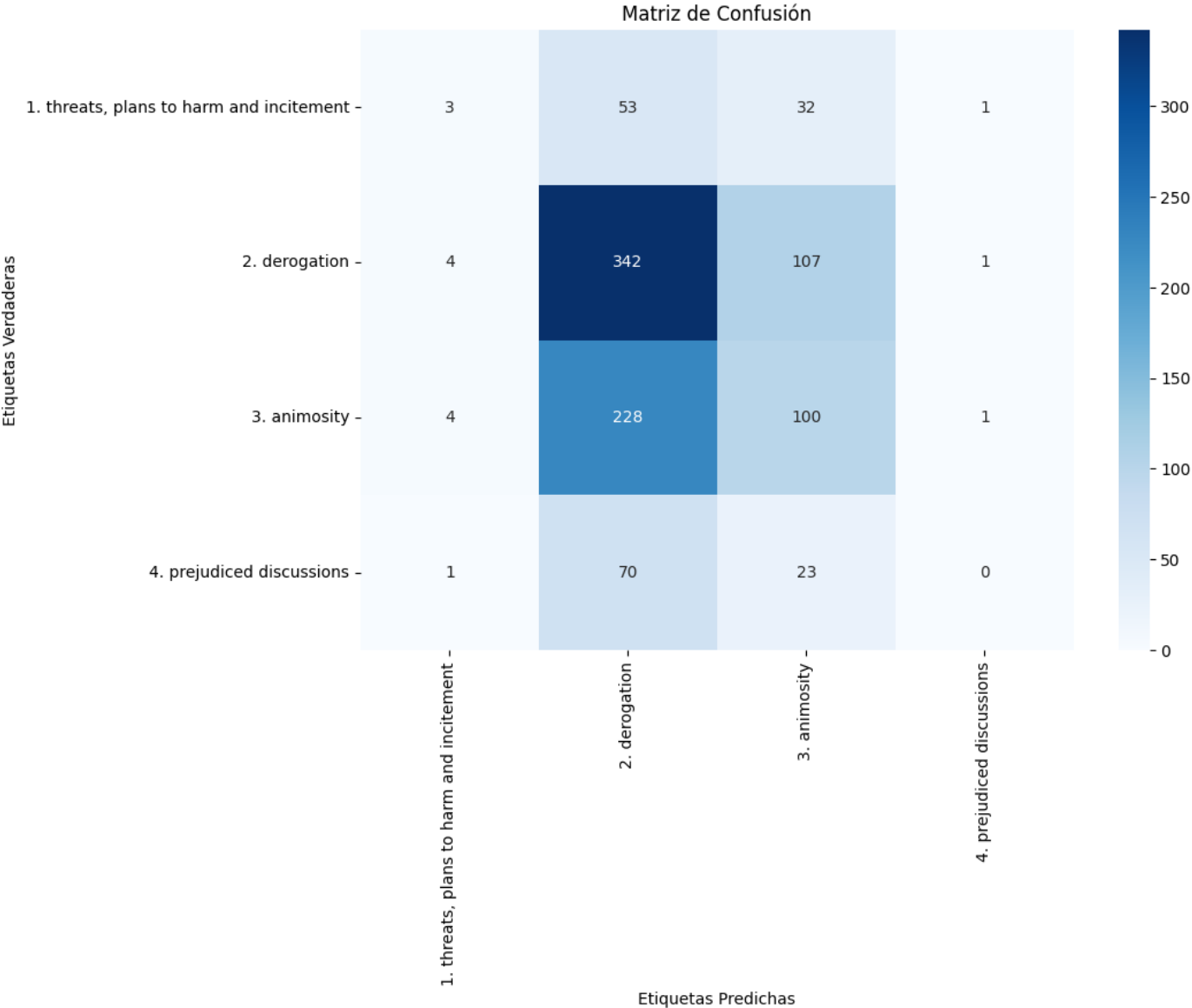
```
glove-wiki-gigaword-100

SVC
Métricas en el conjunto de prueba:
                                    precision    recall  f1-score    support

1. threats, plans to harm and incitement    1.00      0.17      0.29         89
                       2. derogation         0.48      0.94      0.63        454
                        3. animosity         0.50      0.09      0.16        333
              4. prejudiced discussions      0.00      0.00      0.00         94

                            accuracy                             0.49        970
                           macro avg         0.49      0.30      0.27        970
                        weighted avg         0.49      0.49      0.38        970

Micro-F1 Score: 0.4856
```
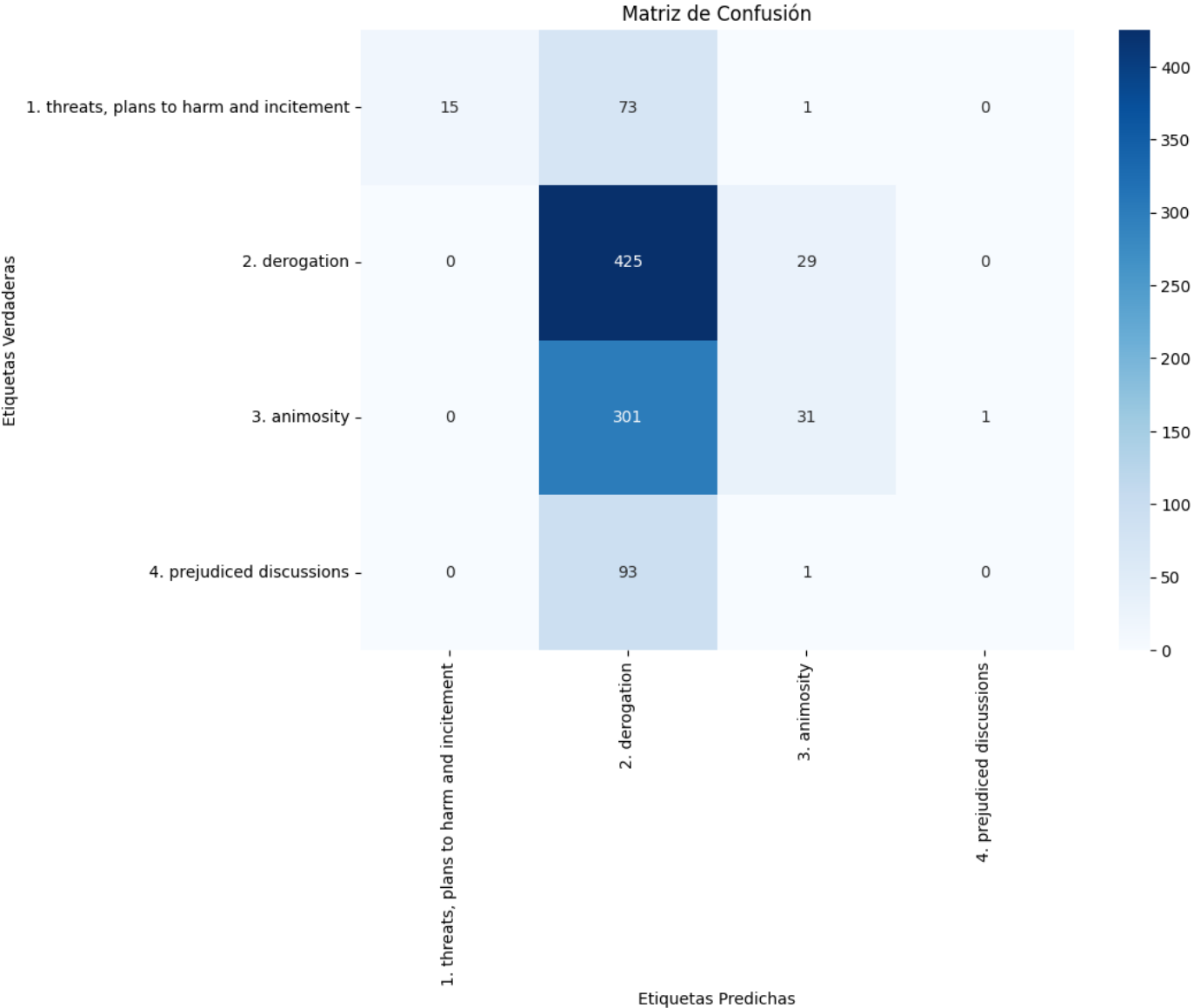
Matriz de Confusión

```
RF

Métricas en el conjunto de prueba:
                                       precision    recall   f1-score    support

1. threats, plans to harm and incitement     0.86      0.07       0.12         89
                          2. derogation       0.50      0.80       0.61        454
                          3. animosity        0.45      0.29       0.35        333
                4. prejudiced discussions     0.55      0.06       0.11         94

                               accuracy                            0.49        970
                              macro avg       0.59      0.31       0.30        970
                           weighted avg       0.52      0.49       0.43        970

Micro-F1 Score: 0.4887
```

Matriz de Confusión

```
XBOOTS

Métricas en el conjunto de prueba:
                                      precision    recall   f1-score    support

1. threats, plans to harm and incitement    0.57      0.19      0.29        89
                        2. derogation        0.51      0.72      0.60       454
                        3. animosity         0.46      0.37      0.41       333
             4. prejudiced discussions       0.55      0.19      0.28        94

                             accuracy                            0.50       970
                            macro avg        0.52      0.37      0.39       970
                         weighted avg        0.50      0.50      0.47       970

Micro-F1 Score: 0.5000
```

Matriz de Confusión

```
glove-wiki-gigaword-300

SVC

Métricas en el conjunto de prueba:
                                        precision    recall   f1-score    support

1. threats, plans to harm and incitement     0.77      0.27      0.40         89
                            2. derogation     0.50      0.80      0.62        454
                             3. animosity     0.52      0.31      0.38        333
                4. prejudiced discussions     0.54      0.07      0.13         94

                                 accuracy                         0.51        970
                                macro avg     0.58      0.36      0.38        970
                             weighted avg     0.53      0.51      0.47        970

Micro-F1 Score: 0.5124
```

Matriz de Confusión
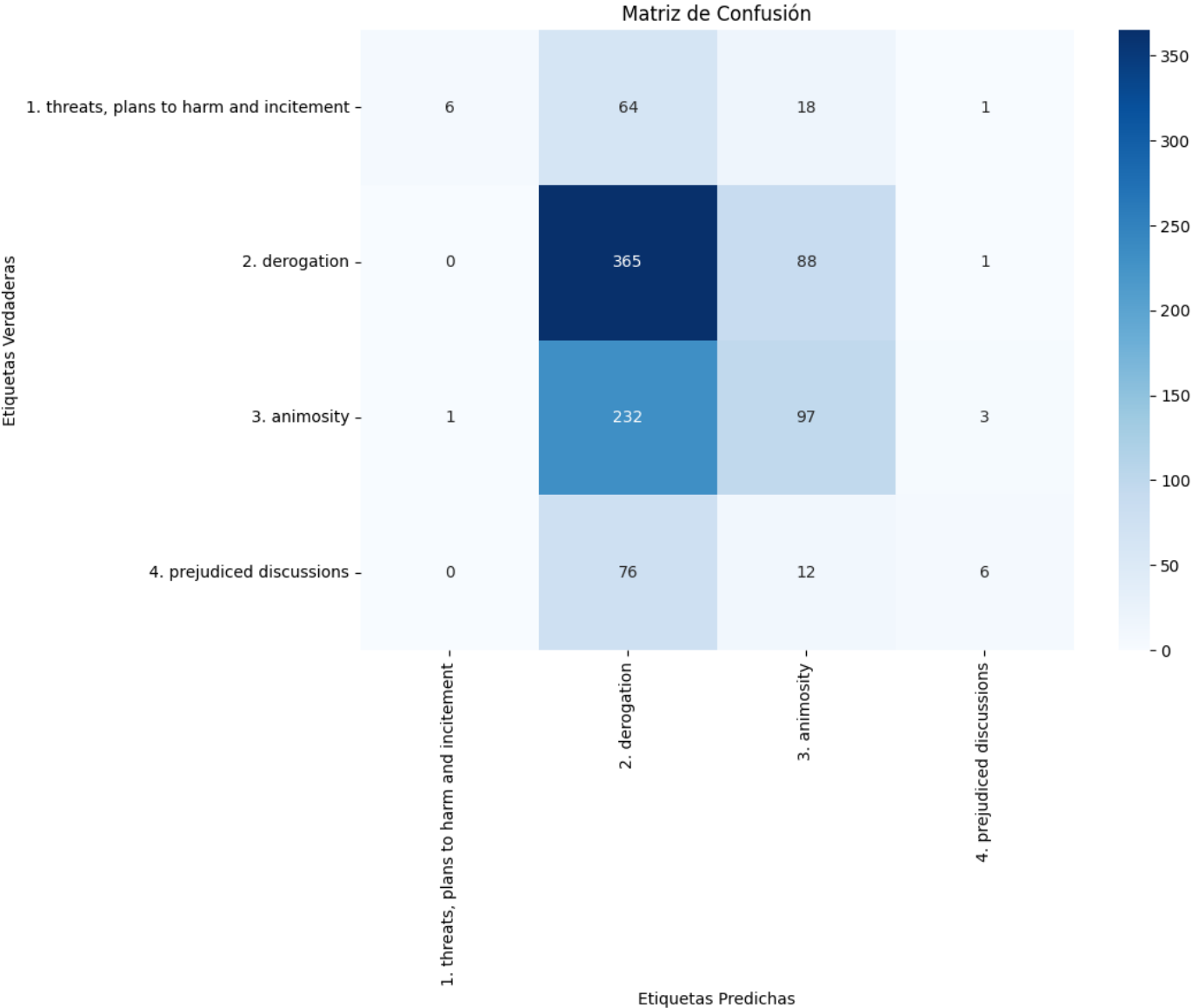
RF
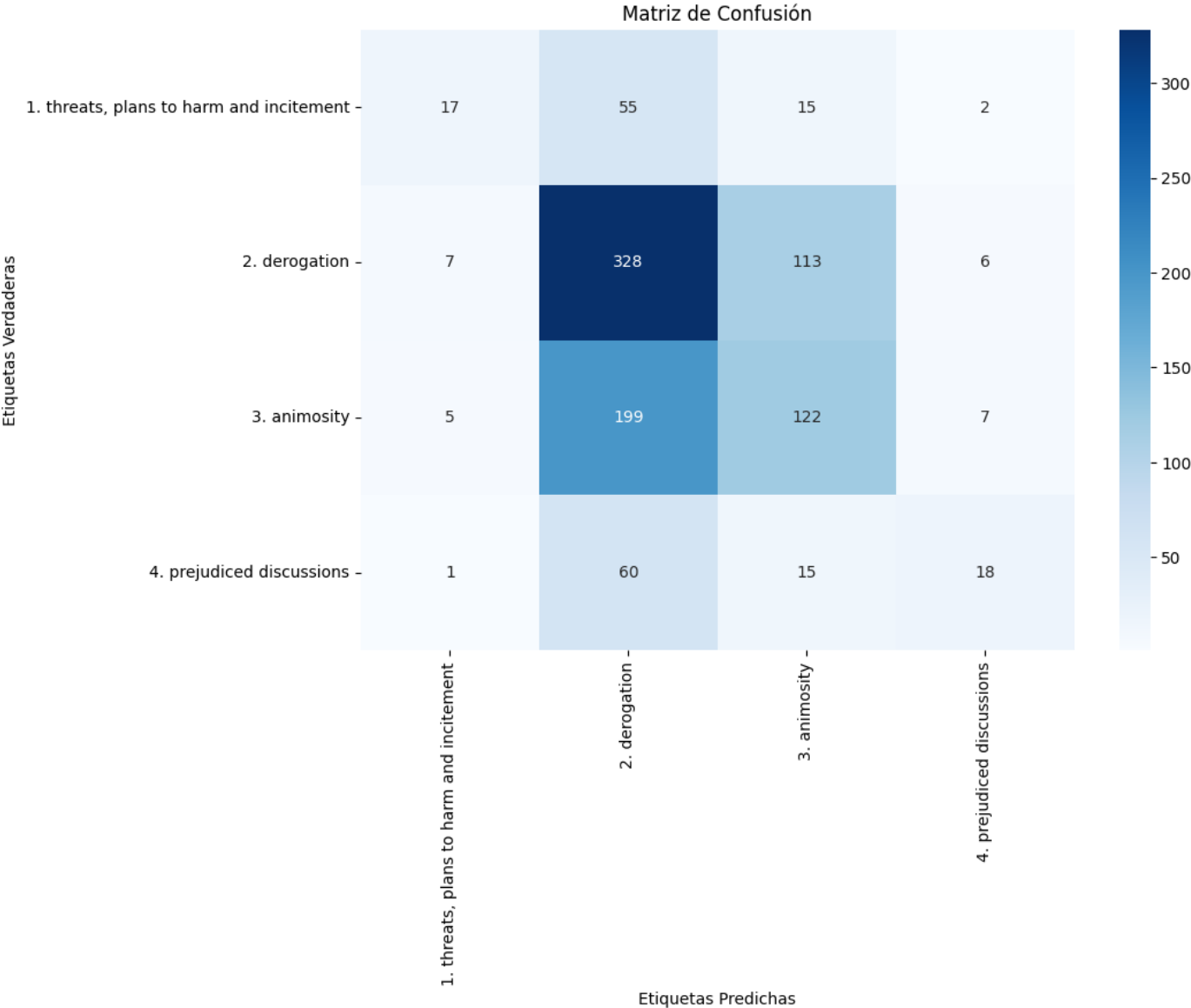
Métricas en el conjunto de prueba:

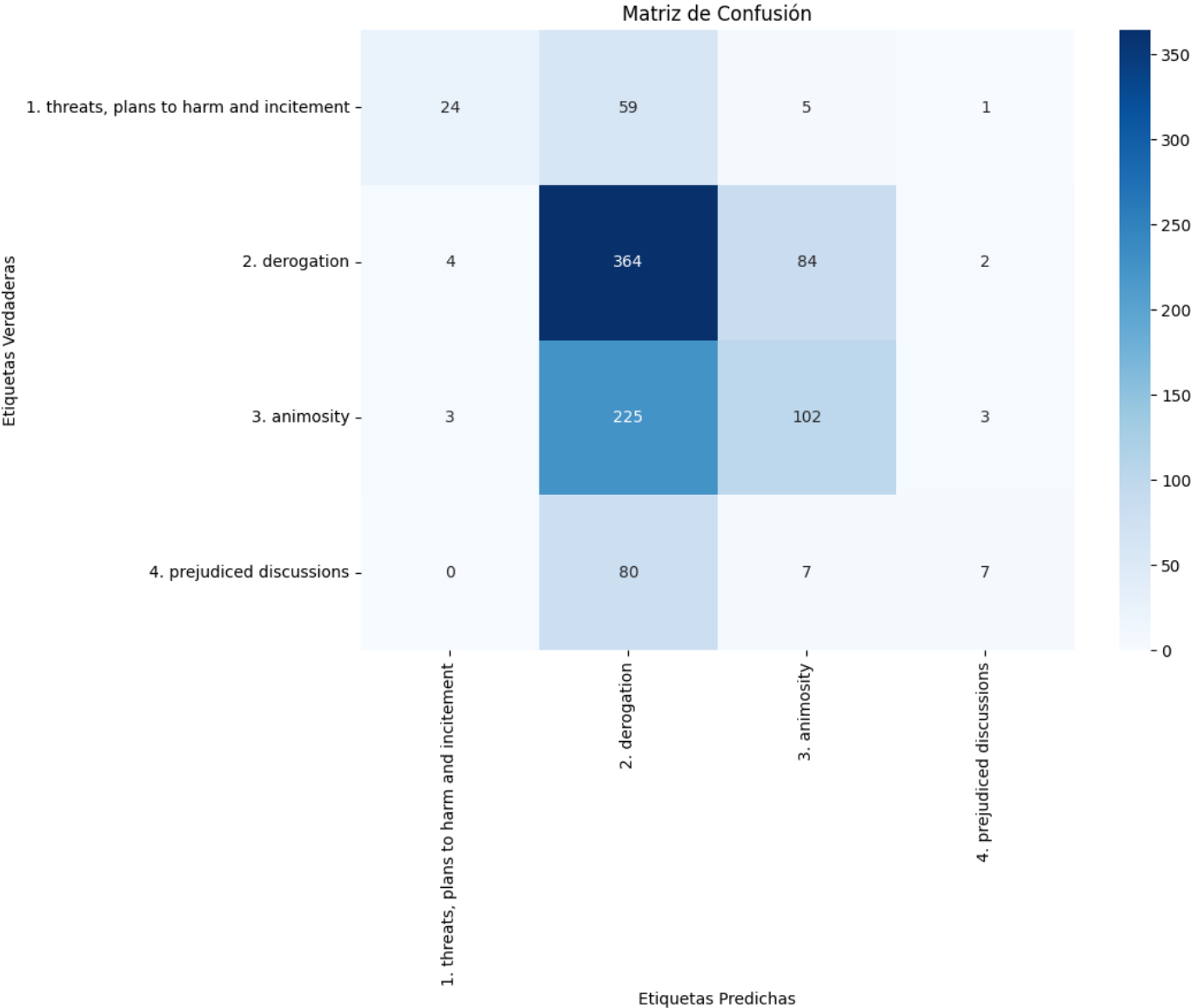|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.83	0.06	0.11	89
2. derogation	0.48	0.83	0.61	454
3. animosity	0.45	0.24	0.31	333
4. prejudiced discussions	0.50	0.02	0.04	94
accuracy			0.48	970
macro avg	0.57	0.29	0.27	970
weighted avg	0.51	0.48	0.41	970

Micro-F1 Score: 0.4794

Matriz de Confusión

```
XBoots

Métricas en el conjunto de prueba:
                                        precision    recall  f1-score    support

1. threats, plans to harm and incitement    0.64      0.20      0.31         89
                            2. derogation    0.50      0.74      0.60        454
                             3. animosity    0.48      0.37      0.42        333
                 4. prejudiced discussions    0.61      0.15      0.24         94

                                 accuracy                        0.50        970
                                macro avg    0.56      0.36      0.39        970
                             weighted avg    0.52      0.50      0.47        970

Micro-F1 Score: 0.5041
```

Glove-Twitter-100

SVC

```
Métricas en el conjunto de prueba:
                                        precision    recall  f1-score    support

1. threats, plans to harm and incitement    0.95      0.22      0.36         89
                            2. derogation    0.49      0.95      0.64        454
                             3. animosity    0.56      0.10      0.17        333
                 4. prejudiced discussions    0.50      0.01      0.02         94

                                 accuracy                        0.50        970
                                macro avg    0.62      0.32      0.30        970
                             weighted avg    0.56      0.50      0.39        970

Micro-F1 Score: 0.5010
```

Matriz de Confusión
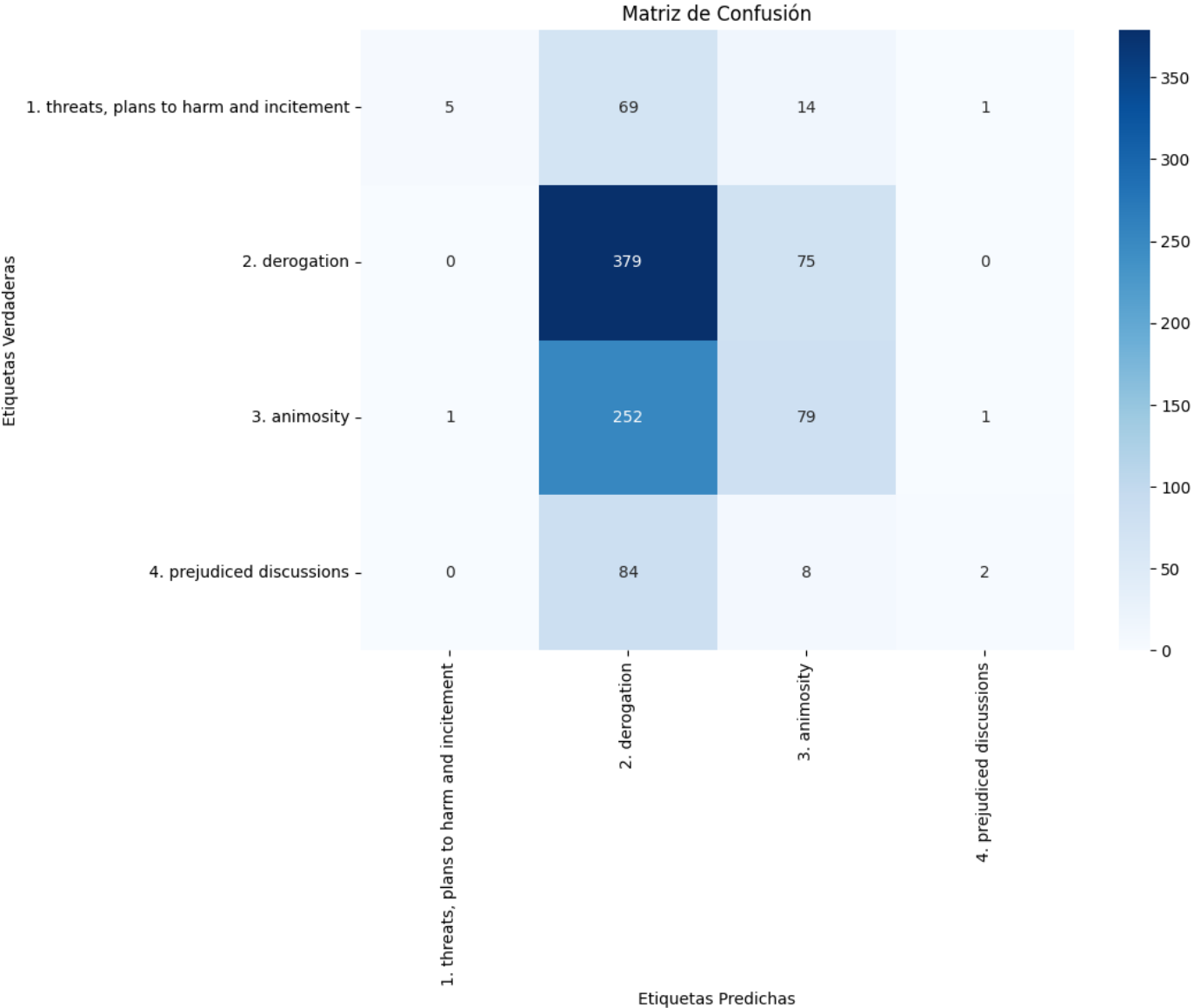
RF

Métricas en el conjunto de prueba:

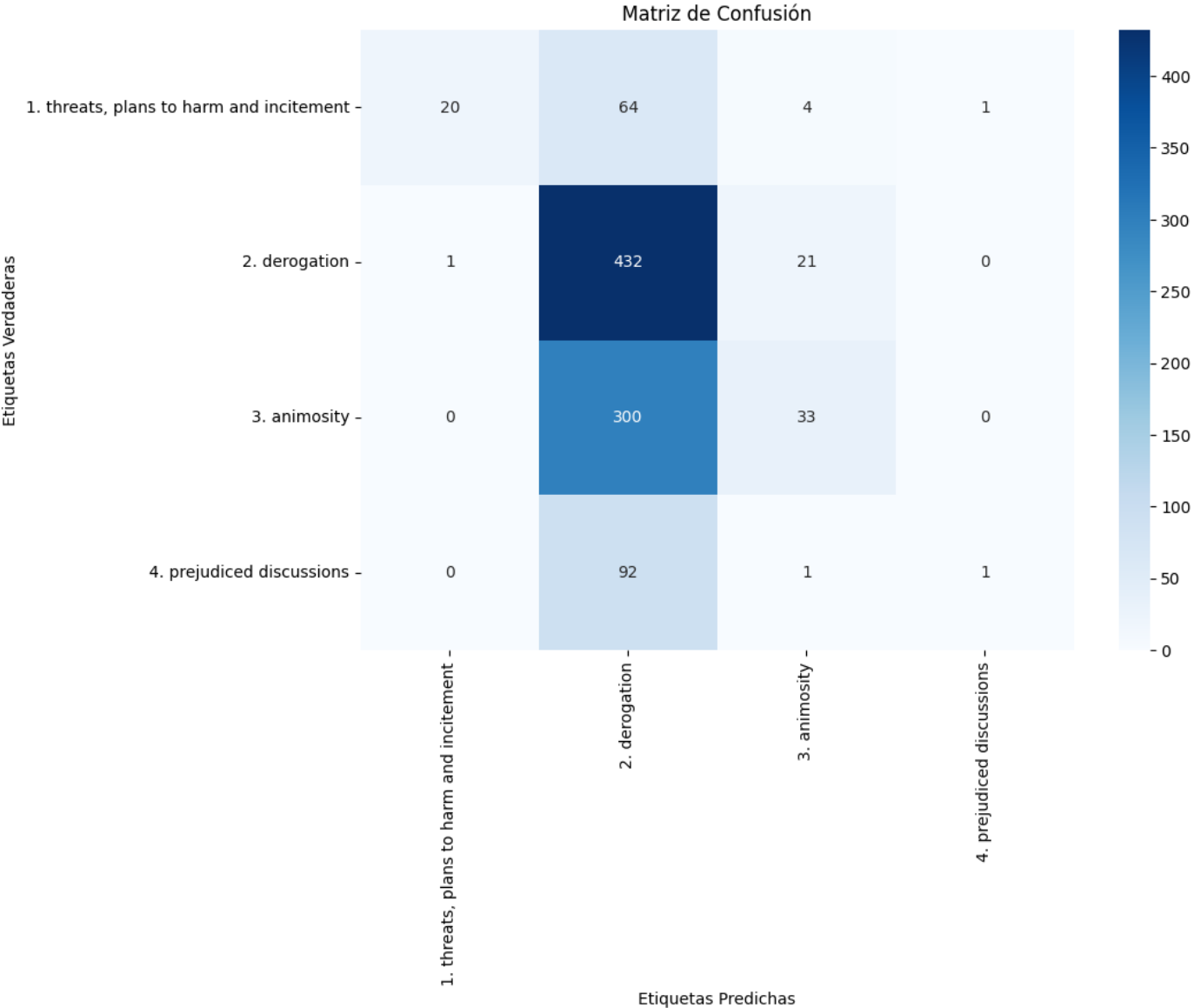|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.83	0.11	0.20	89
2. derogation	0.50	0.82	0.62	454
3. animosity	0.48	0.30	0.37	333
4. prejudiced discussions	0.60	0.06	0.12	94
accuracy			0.50	970
macro avg	0.60	0.32	0.33	970
weighted avg	0.53	0.50	0.45	970

Micro-F1 Score: 0.5021

Matriz de Confusión

```
XBOOTS

Métricas en el conjunto de prueba:
                                      precision    recall   f1-score    support

1. threats, plans to harm and incitement    0.63      0.30       0.41         89
                        2. derogation        0.53      0.71       0.60        454
                         3. animosity        0.46      0.38       0.42        333
              4. prejudiced discussions      0.50      0.19       0.28         94

                             accuracy                             0.51        970
                            macro avg        0.53      0.40       0.43        970
                         weighted avg        0.51      0.51       0.49        970

Micro-F1 Score: 0.5113
```

Matriz de Confusión

	1. threats, plans to harm and incitement	2. derogation	3. animosity	4. prejudiced discussions
1. threats, plans to harm and incitement	27	41	19	2
2. derogation	6	323	116	9
3. animosity	8	190	128	7
4. prejudiced discussions	2	60	14	18

Etiquetas Verdaderas

Etiquetas Predichas

Matriz de Confusión

fasttext-wiki-news-subwords-300

SVC
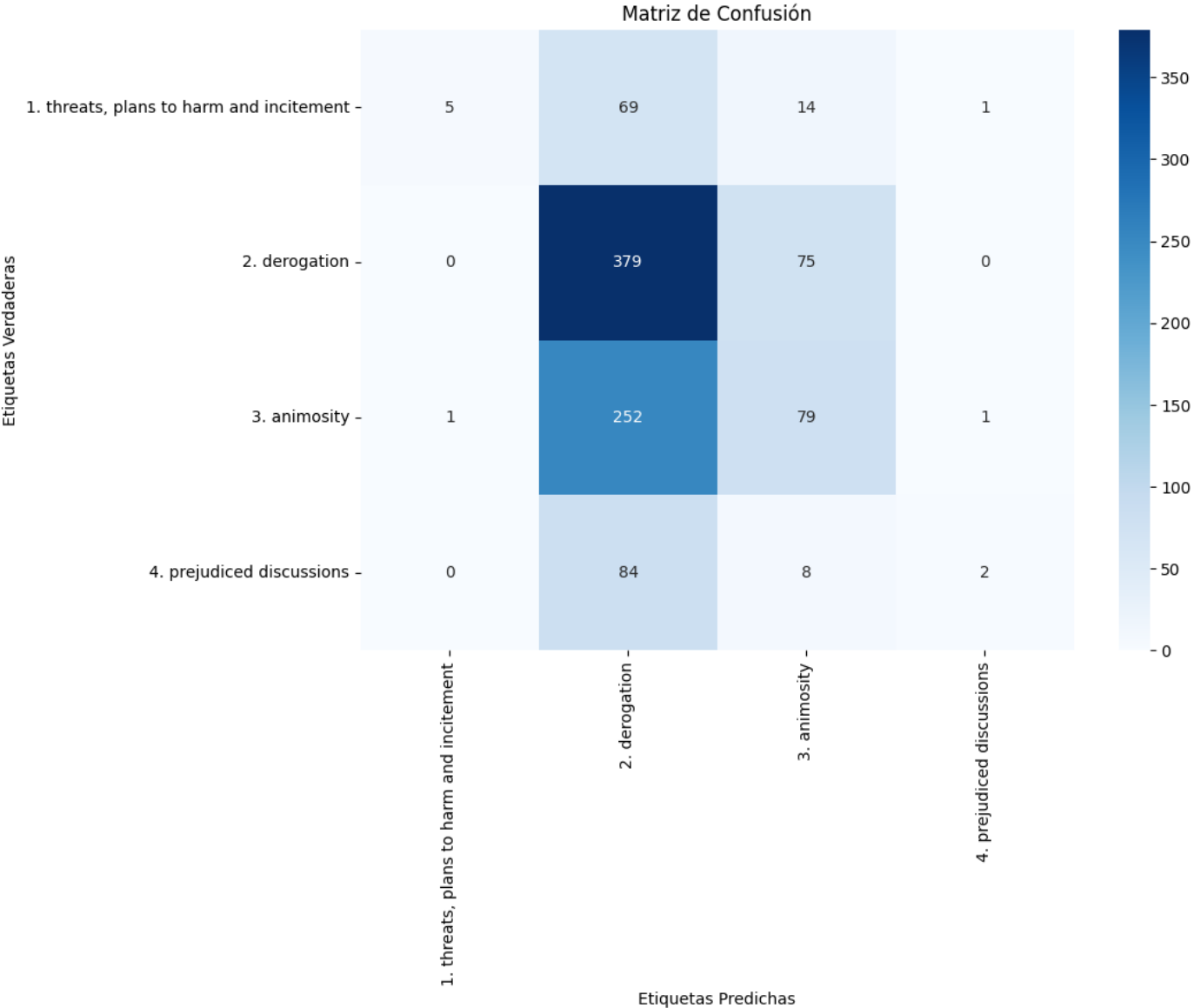
Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.93	0.16	0.27	89
2. derogation	0.49	0.96	0.64	454
3. animosity	0.58	0.11	0.18	333
4. prejudiced discussions	0.00	0.00	0.00	94
accuracy			0.50	970
macro avg	0.50	0.31	0.27	970
weighted avg	0.51	0.50	0.39	970

Micro-F1 Score: 0.4990

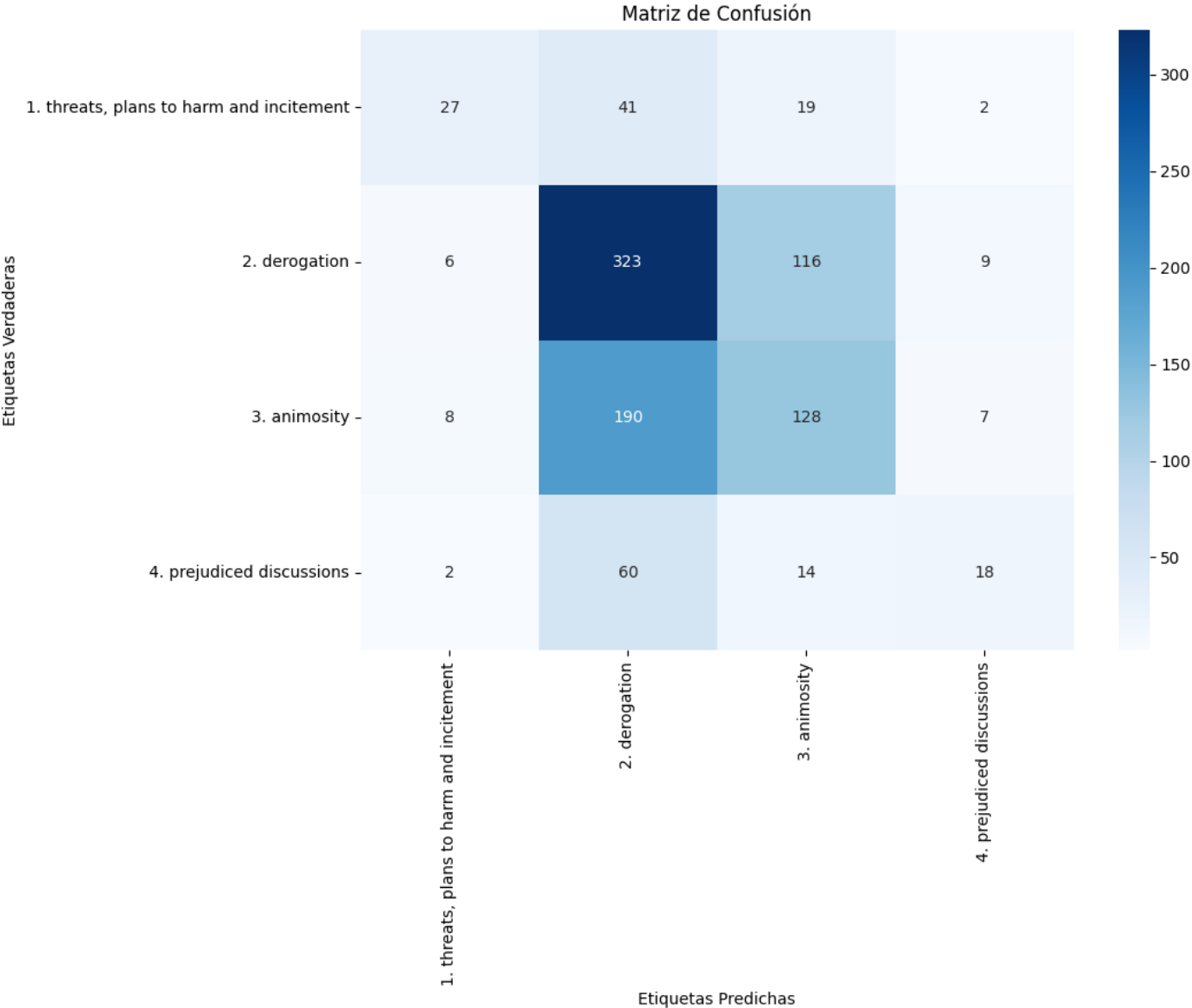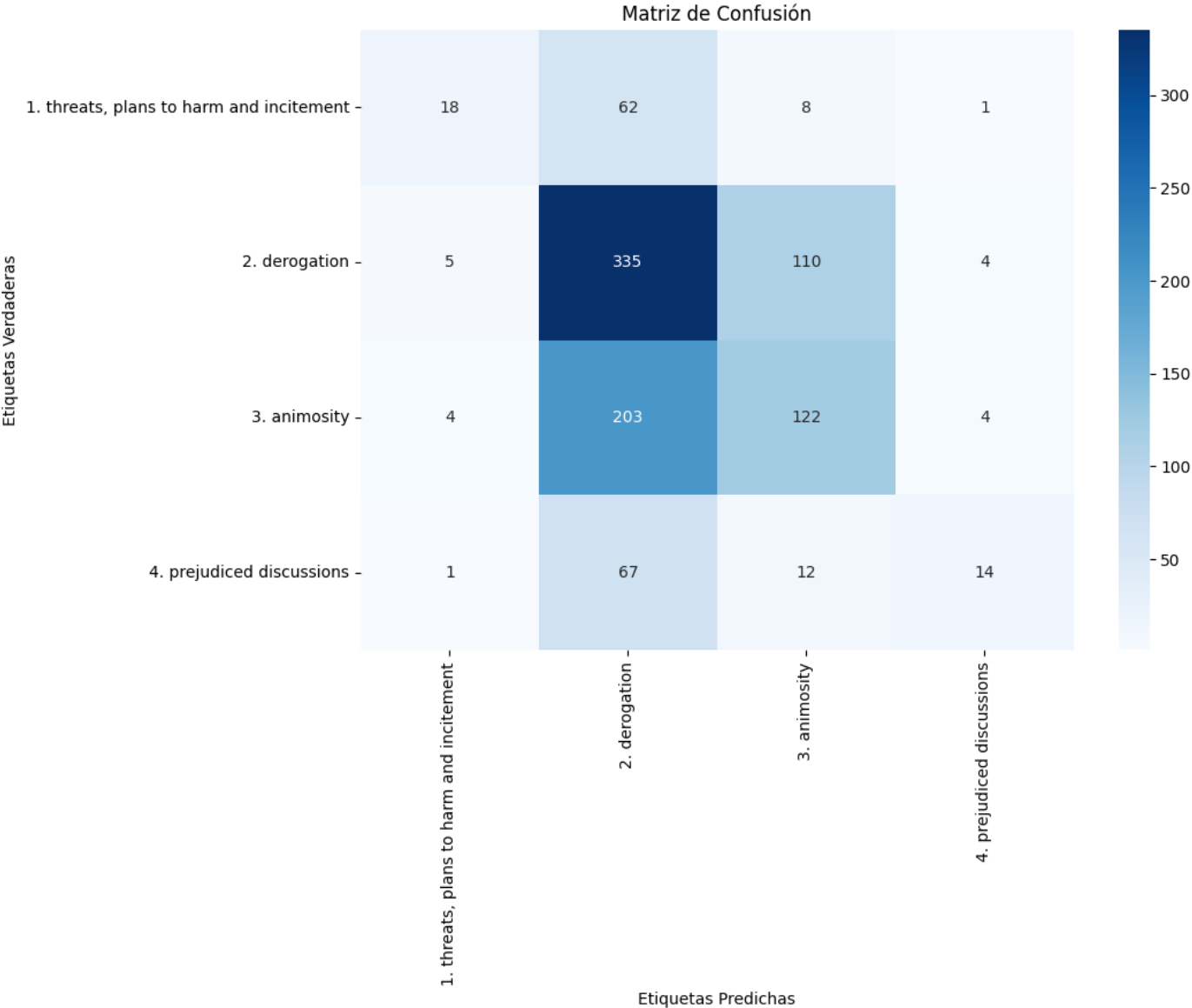Matriz de Confusión

RF

Métricas en el conjunto de prueba:

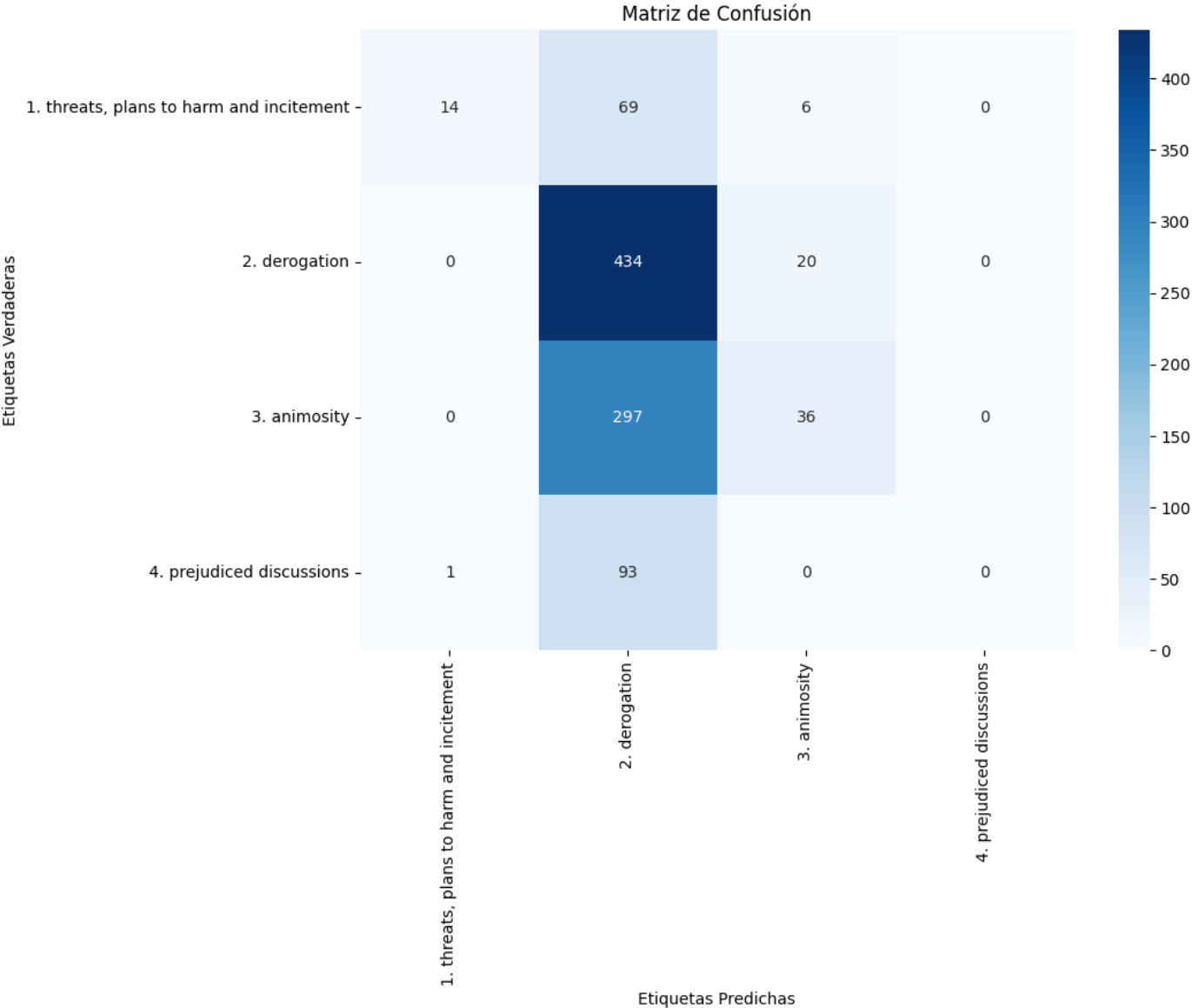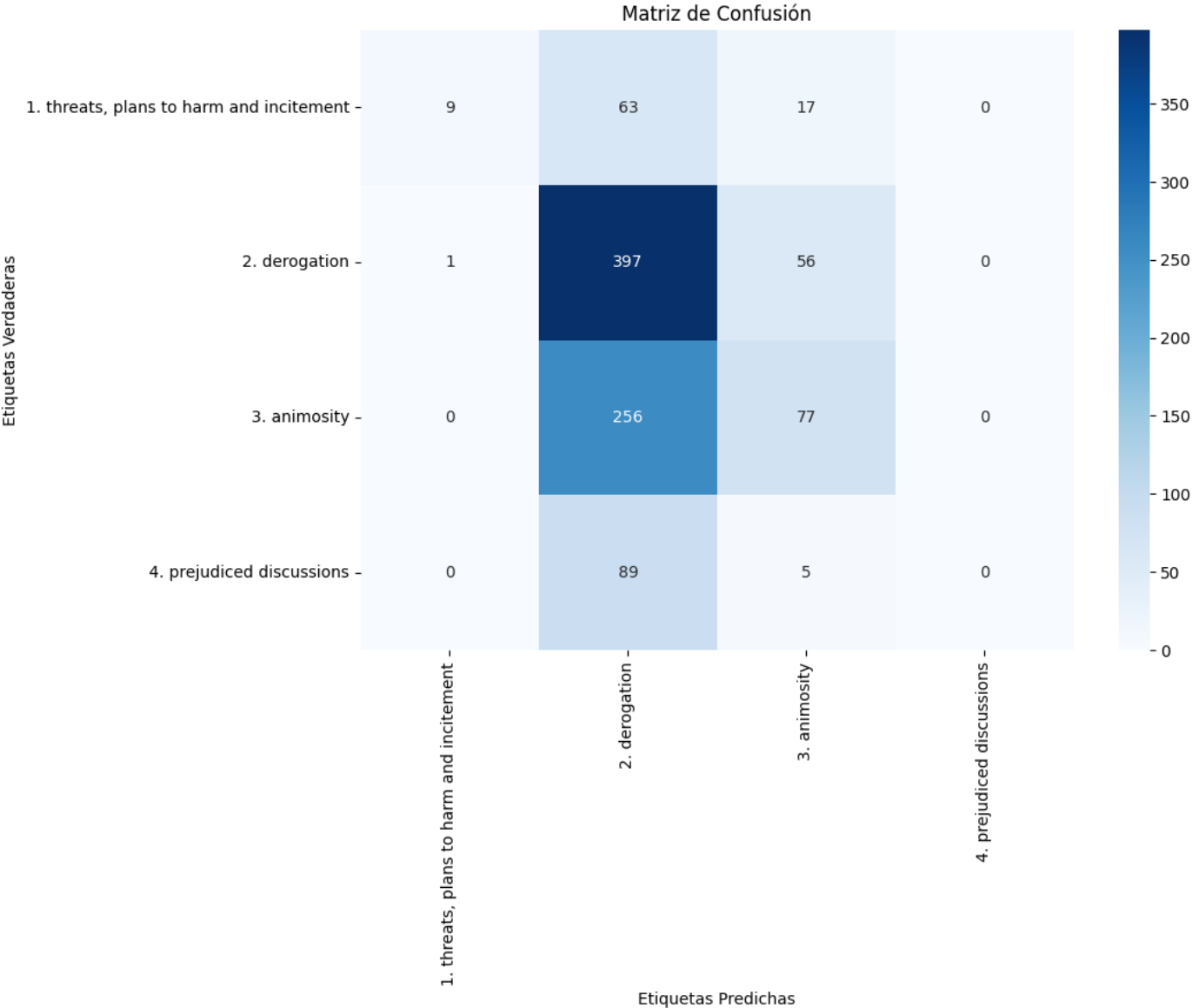|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.90	0.10	0.18	89
2. derogation	0.49	0.87	0.63	454
3. animosity	0.50	0.23	0.32	333
4. prejudiced discussions	0.00	0.00	0.00	94
accuracy			0.50	970
macro avg	0.47	0.30	0.28	970
weighted avg	0.48	0.50	0.42	970

Micro-F1 Score: 0.4979

Matriz de Confusión

XBoots

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.61	0.26	0.36	89
2. derogation	0.51	0.74	0.61	454
3. animosity	0.45	0.34	0.39	333
4. prejudiced discussions	0.54	0.15	0.23	94
accuracy			0.50	970
macro avg	0.53	0.37	0.40	970
weighted avg	0.50	0.50	0.47	970

Micro-F1 Score: 0.5021

Matriz de Confusión

Bert

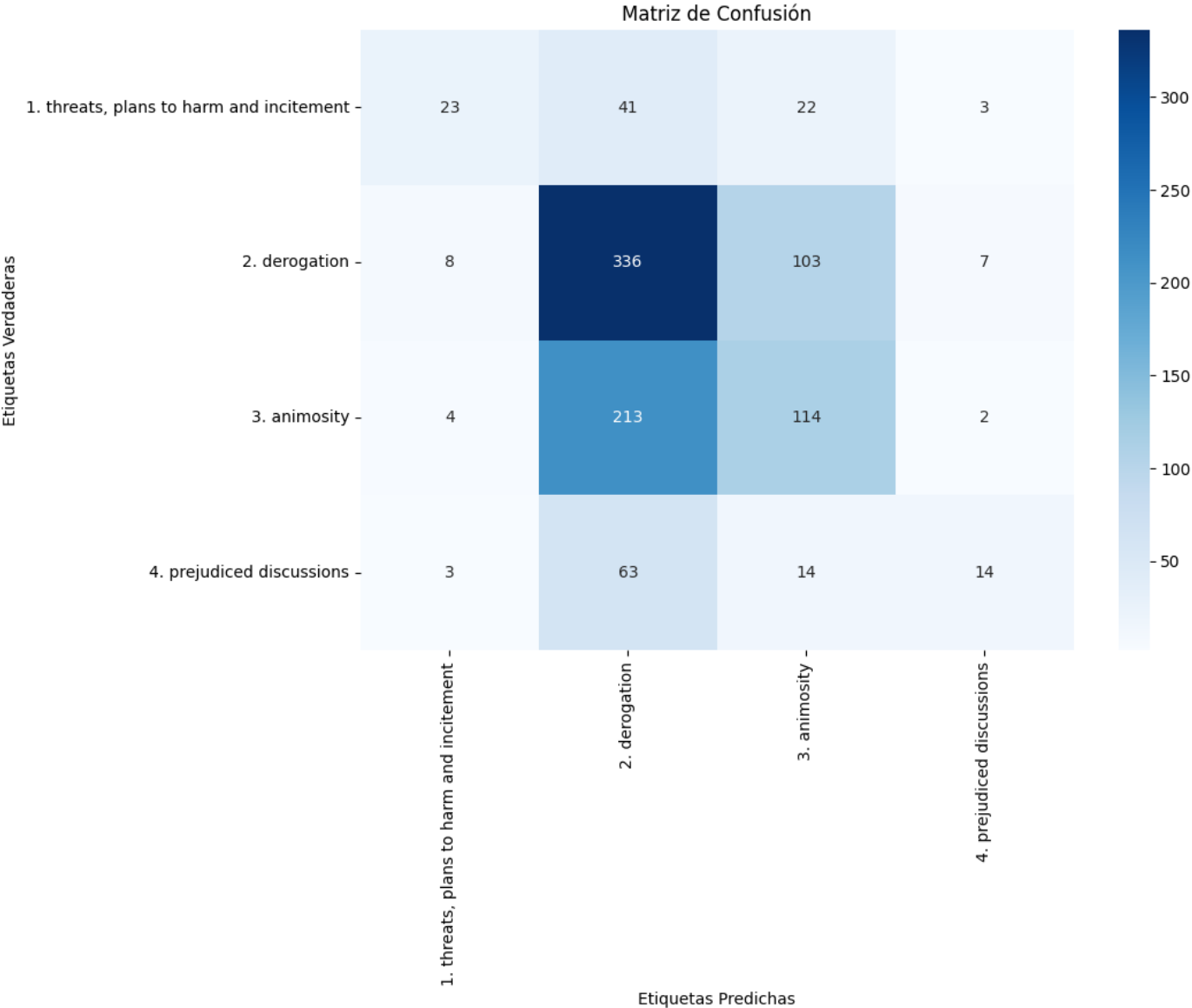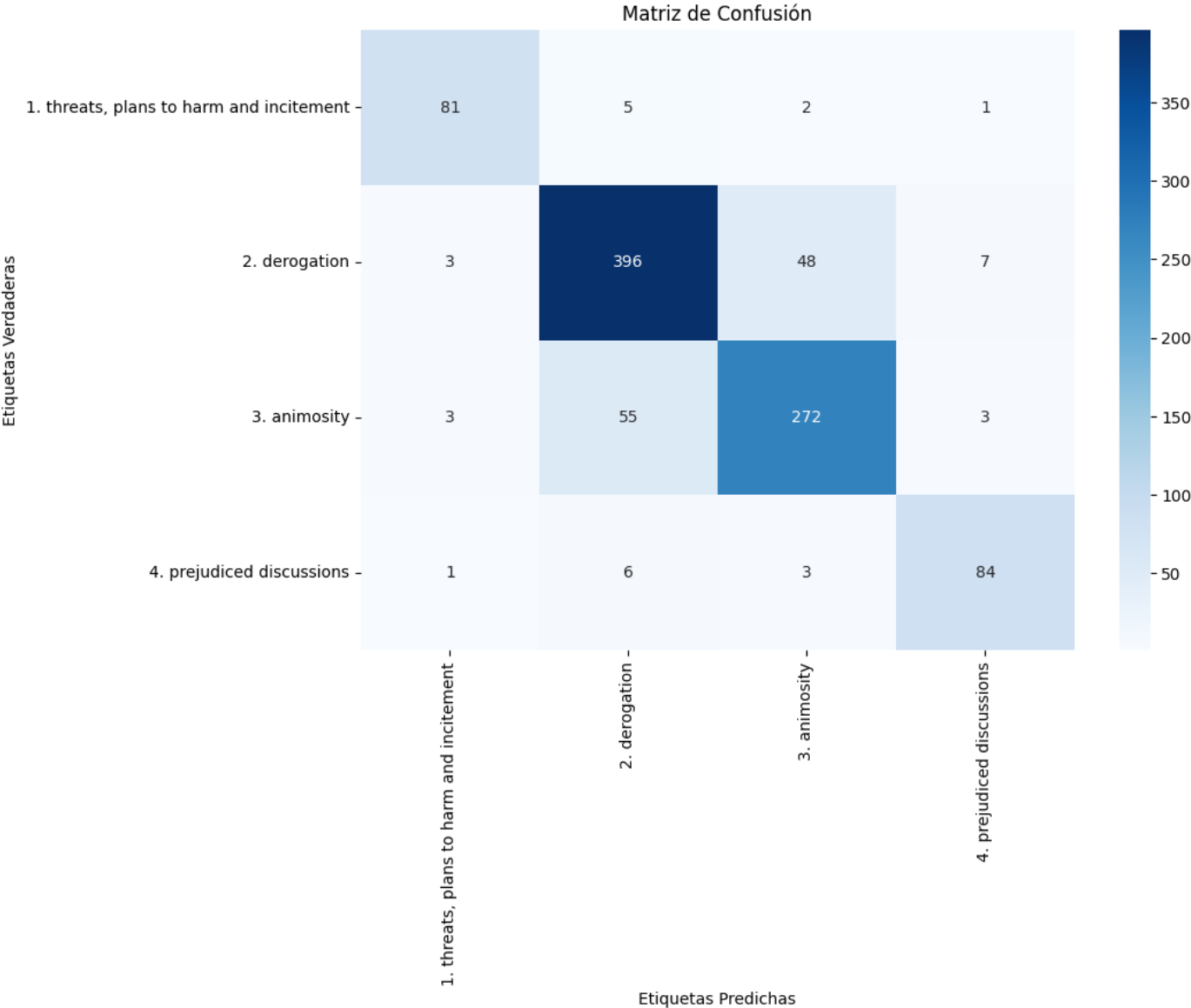|	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.92	0.91	0.92	89
2. derogation	0.88	0.91	0.90	454
3. animosity	0.88	0.87	0.88	333
4. prejudiced discussions	0.91	0.82	0.86	94
accuracy			0.89	970
macro avg	0.90	0.88	0.89	970
weighted avg	0.89	0.89	0.89	970

Micro-F1 Score: 0.8887

ROBERTA

	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.92	0.91	0.92	89
2. derogation	0.86	0.87	0.86	454
3. animosity	0.84	0.82	0.83	333
4. prejudiced discussions	0.88	0.89	0.89	94
accuracy			0.86	970
macro avg	0.87	0.87	0.87	970
weighted avg	0.86	0.86	0.86	970

```
[[ 81   5   2   1]
 [  3 396  48   7]
 [  3  55 272   3]
 [  1   6   3  84]]
```
Micro-F1 Score: 0.8588

Matriz de Confusión

	1. threats, plans to harm and incitement	2. derogation	3. animosity	4. prejudiced discussions
1. threats, plans to harm and incitement	81	5	2	1
2. derogation	3	396	48	7
3. animosity	3	55	272	3
4. prejudiced discussions	1	6	3	84

Etiquetas Verdaderas

Etiquetas Predichas

BERT

SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
0	0.68	0.56	0.61	89
1	0.59	0.75	0.66	454
2	0.56	0.44	0.50	333
3	0.66	0.39	0.49	94
accuracy			0.59	970
macro avg	0.62	0.54	0.57	970
weighted avg	0.60	0.59	0.59	970

Micro-F1 Score: 0.5948
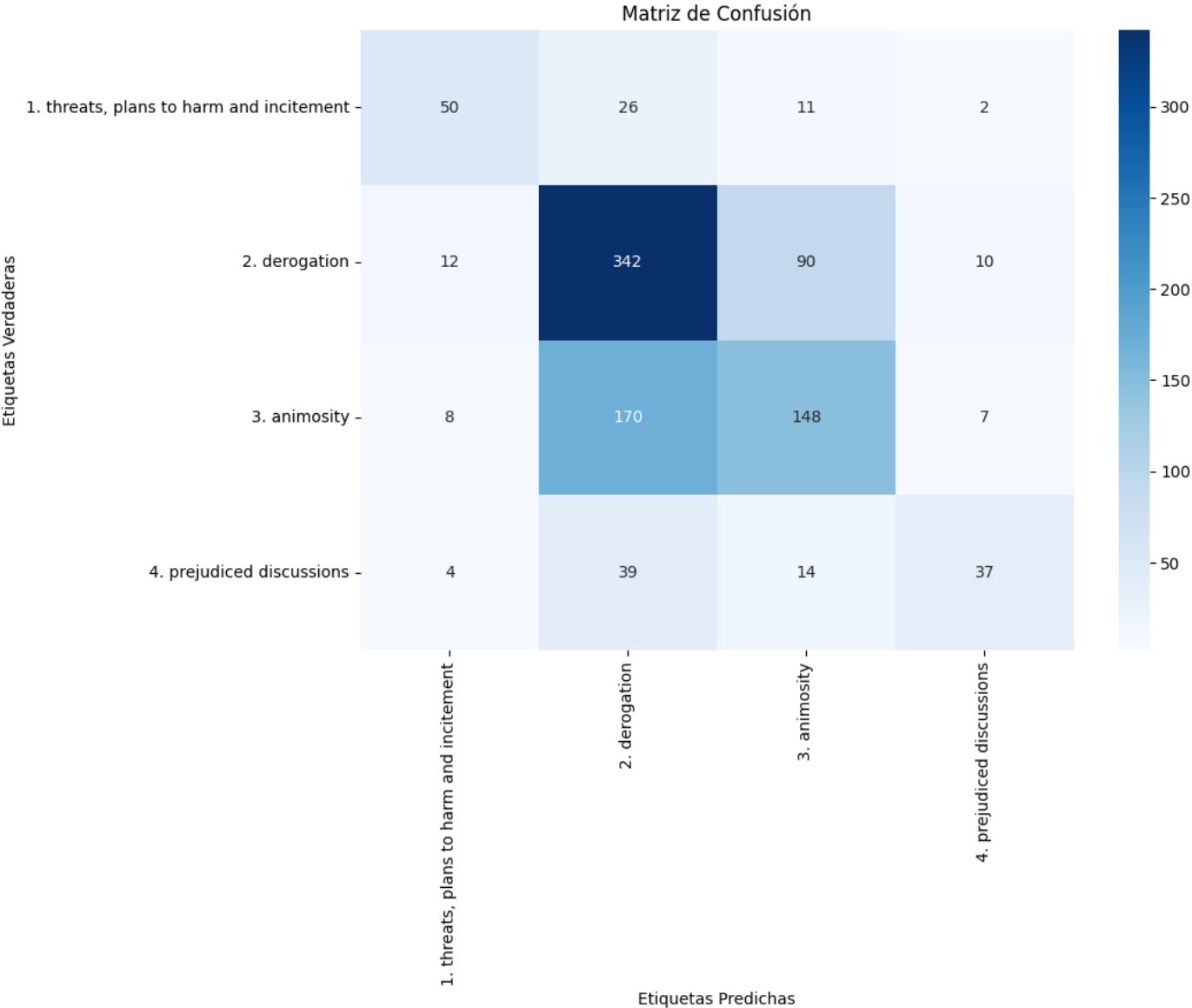
Matriz de Confusión
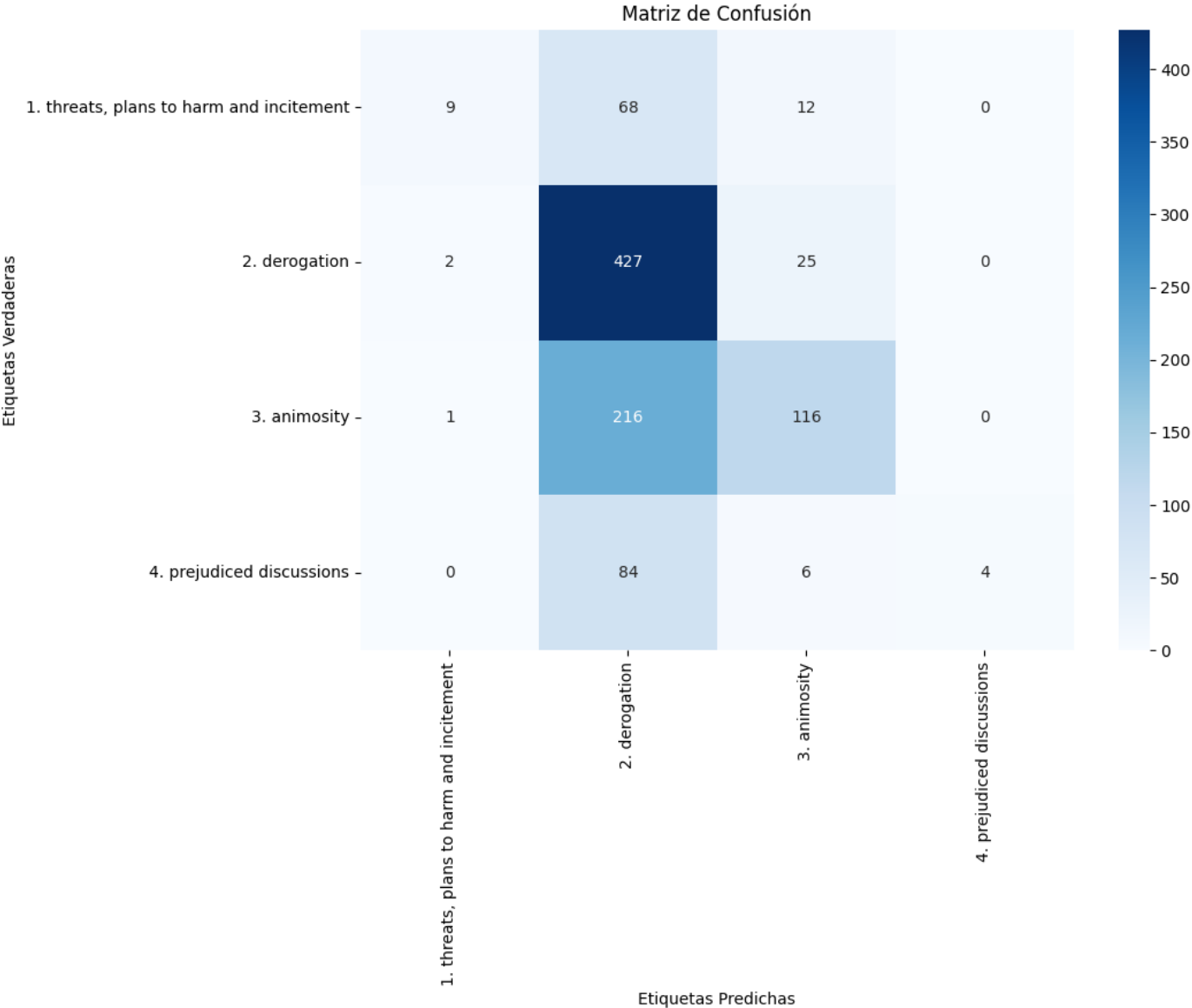
RF

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
1. threats, plans to harm and incitement	0.75	0.10	0.18	89
2. derogation	0.54	0.94	0.68	454
3. animosity	0.73	0.35	0.47	333
4. prejudiced discussions	1.00	0.04	0.08	94
accuracy			0.57	970
macro avg	0.75	0.36	0.35	970
weighted avg	0.67	0.57	0.51	970

Micro-F1 Score: 0.5732

Matriz de Confusión

```
XGBOOTS

Métricas en el conjunto de prueba:
                                        precision    recall   f1-score    support

1. threats, plans to harm and incitement    0.82      0.37       0.51         89
                        2. derogation        0.64      0.89       0.74        454
                         3. animosity        0.73      0.58       0.65        333
              4. prejudiced discussions      0.91      0.34       0.50         94

                             accuracy                             0.68        970
                            macro avg        0.78      0.54       0.60        970
                         weighted avg        0.71      0.68       0.66        970

Micro-F1 Score: 0.6814
```

Matriz de Confusión

	1. threats, plans to harm and incitement	2. derogation	3. animosity	4. prejudiced discussions
1. threats, plans to harm and incitement	33	40	16	0
2. derogation	4	402	45	3
3. animosity	1	138	194	0
4. prejudiced discussions	2	49	11	32

Etiquetas Verdaderas

Etiquetas Predichas

Matriz de Confusión