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30 December 2025

Suresh Yellayi
Entain Operations Limited
Suite 6, Atlantic Suites
Europort Avenue, Gibraltar

Re: Mathematical Analysis of *Poker*

File Number: MA-00-GSV-25-08

Dear Mr. Yellayi,

As per Entain Operations Limited's request, please find **Gaming Laboratories International, LLC's (GLI)** mathematical analysis of the following Poker:

This is to confirm that GLI has examined the Poker game logs in the gaming system of Entain Plc for the month of **November 2025** as recorded by the respective game servers and analyzed the Poker cards for statistical randomness.

1. Poker

This report only verifies the mathematical aspects of these games and DOES NOT offer an opinion as to whether or not these games are currently authorized for use in any jurisdiction.

Mathematical Analysis

Gaming Laboratories International, LLC (GLI) was requested by Entain Operations Limited to independently calculate the expected payback for the mentioned games and confirm that the returns are within the requirements. On the following page, please find a table containing the summary of our results.

1. Poker hand types statistics

These calculations were done for Royal Flush, Straight Flush, Four of a Kind, Full House, Flush, Straight, 3 of a Kind, 2 pairs, 1 Pair, High Card.

The Poker hand types analysis involved creating subsets of data and conducting Chi-square tests on each subset.

The null hypothesis for the chi-square test is that the observed frequencies of each type of hand matches the theoretical values for a deck that has been shuffled using a perfect random number generator. The p-values observed in these multiple tests are expected to follow a uniform distribution for the range 0.0 to 1.0.

The analysis performs a KS Test (Kolmogorov-Smirnov test) for uniform distribution on the observed p-values, and the combined p-value result of this test is taken as the final result of the Poker hand types statistics tests.

1.1 Poker hand types statistics for 52 cards deck:

Test No.	DOF	ChiSqr	P-Value
1	9	7.33	0.60256
2	9	5.75	0.76417
3	9	14.96	0.09211
4	9	11.28	0.25712
5	9	6.78	0.65980
6	9	12.44	0.18986
7	9	8.19	0.51484
8	9	8.98	0.43884
9	9	12.26	0.19901
10	9	12.43	0.19026
11	9	11.79	0.22528
12	9	14.08	0.11955

Test No.	DOF	ChiSqr	P-Value
13	9	12.91	0.16672
14	9	7.96	0.53801
15	9	8.78	0.45764
16	9	1.29	0.99845
17	9	14.28	0.11257
18	9	14.08	0.11952
19	9	10.79	0.29030
20	9	6.58	0.68117
21	9	4.75	0.85516
22	9	9.23	0.41666
23	9	10.25	0.33086
24	9	4.88	0.84465
25	9	11.36	0.25190
26	9	22.40	0.00769
27	9	2.29	0.98594
28	9	7.05	0.63196
29	9	5.15	0.82134
30	9	7.50	0.58475
31	9	3.12	0.95940
32	9	5.33	0.80420
33	9	2.29	0.98605
34	9	4.25	0.89452
35	9	2.55	0.97938

Test No.	DOF	ChiSqr	P-Value
36	9	9.63	0.38147
37	9	6.06	0.73341
38	9	6.92	0.64505
39	9	7.05	0.63196
40	9	6.72	0.66676
41	9	7.61	0.57426
42	9	10.10	0.34225
43	9	17.94	0.03592
44	9	10.59	0.30506
45	9	13.87	0.12694
46	9	8.60	0.47507
47	9	5.26	0.81095
48	9	5.53	0.78586
49	9	11.39	0.24974
50	9	6.22	0.71777
51	9	4.40	0.88301
52	9	5.34	0.80352
53	9	9.41	0.40005
54	9	7.92	0.54191
55	9	5.72	0.76790
56	9	5.97	0.74285
57	9	9.59	0.38474
58	9	8.13	0.52062

Test No.	DOF	ChiSqr	P-Value
59	9	7.99	0.53514
60	9	15.18	0.08600
61	9	5.33	0.80458
62	9	5.71	0.76841
63	9	8.68	0.46688
64	9	8.55	0.48002
65	9	7.21	0.61510
66	9	4.59	0.86838
67	9	12.82	0.17086
68	9	4.15	0.90113
69	9	8.34	0.50027
70	9	8.98	0.43889
71	9	10.87	0.28493
72	9	8.64	0.47093
73	9	17.60	0.04013
74	9	11.62	0.23529
75	9	9.27	0.41318
76	9	19.27	0.02296
77	9	9.51	0.39150
78	9	3.18	0.95666
79	9	5.44	0.79426
80	9	18.52	0.02963
81	9	6.73	0.66569

Test No.	DOF	ChiSqr	P-Value
82	9	7.52	0.58312
83	9	5.57	0.78187
84	9	10.46	0.31477
85	9	6.34	0.70523
86	9	9.15	0.42336
87	9	10.40	0.31897
88	9	6.59	0.68006
89	9	5.01	0.83321
90	9	9.53	0.39016
91	9	12.05	0.21034
92	9	6.35	0.70458
93	9	10.08	0.34431
94	9	9.76	0.37065
95	9	11.85	0.22180
96	9	11.64	0.23418
97	9	12.52	0.18542
98	9	13.20	0.15372
99	9	10.36	0.32186
100	9	9.93	0.35637
Combined P-value for all tests (Using KS method)			0.97848

Notes:

- 1) The P-values are observed probabilities from the Chi-Square tests. The last row shows the result of the KS Test performed on the p-values for all Chi-Square tests, where there are sufficient data.

2. Poker rank statistics

The Poker rank analysis aims to establish that the rank of the cards in each position was equally distributed in one of the 13 possible ranks (2, 3, 4, 5, 6, 7, 8, 9, 10, J, Q, K, A) for a 52 card deck.

The Poker rank analysis involved creating subsets of data and conducting Chi-square tests on each subset. The analysis performs a KS Test (Kolmogorov-Smirnov test) for uniform distribution on the observed p-values, and the combined p-value result of this test is taken as the final result of the Ranks statistics tests.

2.1 Poker rank statistics for 52 cards deck:

Test No.	DOF	ChiSqr	P-Value
1	84	63.57	0.95283
2	84	80.33	0.59318
3	84	91.27	0.27529
4	84	75.61	0.73178
5	84	70.68	0.84980
6	84	84.08	0.47716
7	84	101.17	0.09772
8	84	89.26	0.32686
9	84	91.22	0.27656
10	84	75.41	0.73737
11	84	85.30	0.44000
12	84	63.60	0.95263
13	84	81.00	0.57250
14	84	92.30	0.25100

Test No.	DOF	ChiSqr	P-Value
15	84	97.48	0.14921
16	84	86.17	0.41385
17	84	87.16	0.38521
18	84	114.96	0.01407
19	84	77.15	0.68865
20	84	76.82	0.69804
21	84	103.24	0.07568
22	84	83.60	0.49191
23	84	81.08	0.56989
24	84	82.11	0.53813
25	84	101.95	0.08889
26	84	87.24	0.38278
27	84	106.88	0.04677
28	84	100.80	0.10214
29	84	92.40	0.24857
30	84	67.67	0.90312
31	84	73.75	0.78047
32	84	67.60	0.90432
33	84	70.46	0.85427
34	84	89.38	0.32364
35	84	103.03	0.07775
36	84	84.24	0.47225

Test No.	DOF	ChiSqr	P-Value
37	84	82.39	0.52939
38	84	82.05	0.53996
39	84	62.37	0.96295
40	84	77.82	0.66909
41	84	102.89	0.07906
42	84	78.33	0.65383
43	84	72.25	0.81614
44	84	81.78	0.54811
45	84	62.32	0.96332
46	84	92.04	0.25702
47	84	63.61	0.95249
48	84	82.77	0.51736
49	84	86.49	0.40442
50	84	70.38	0.85585
51	84	86.92	0.39193
52	84	87.75	0.36824
53	84	85.89	0.42222
54	84	60.64	0.97440
55	84	85.11	0.44558
56	84	104.24	0.06656
57	84	103.83	0.07022
58	84	70.99	0.84341
59	84	83.01	0.50997

Test No.	DOF	ChiSqr	P-Value
60	84	87.97	0.36207
61	84	78.48	0.64930
62	84	89.63	0.31686
63	84	84.78	0.45563
64	84	71.20	0.83911
65	84	70.46	0.85409
66	84	93.78	0.21816
67	84	69.62	0.87035
68	84	91.90	0.26034
69	84	80.78	0.57940
70	84	74.73	0.75535
71	84	58.04	0.98623
72	84	86.41	0.40686
73	84	105.32	0.05777
74	84	109.43	0.03263
75	84	78.87	0.63770
76	84	98.98	0.12626
77	84	80.28	0.59457
78	84	114.37	0.01545
79	84	55.43	0.99318
80	84	66.62	0.91834
81	84	101.68	0.09183
82	84	65.74	0.92973

Test No.	DOF	ChiSqr	P-Value
83	84	114.48	0.01517
84	84	63.12	0.95684
85	84	62.27	0.96372
86	84	105.63	0.05541
87	84	81.32	0.56257
88	84	71.07	0.84173
89	84	69.70	0.86871
90	84	90.45	0.29574
91	84	81.07	0.57044
92	84	74.46	0.76229
93	84	112.63	0.02025
94	84	71.46	0.83353
95	84	61.35	0.97009
96	84	77.67	0.67354
97	84	77.77	0.67042
98	84	75.65	0.73081
99	84	92.53	0.24574
100	84	99.41	0.12016
Combined P-value for all tests (Using KS method)			0.47104

Notes:

- 1) The P-values are observed probabilities from the Chi-Square tests. The last row shows the result of the KS Test performed on the p-values for all Chi-Square tests, where there are sufficient data.

3. Poker suits statistics

The Poker suits analysis aims to verify that the cards dealt exhibit an equal probability of all 4 suits (Clubs, Diamonds, Hearts and Spades) in all positions.

The Poker suits analysis involved creating subsets of data and conducting Chi-square tests on each subset. The analysis performs a KS Test (Kolmogorov-Smirnov test) for uniform distribution on the observed p-values, and the combined p-value result of this test is taken as the final result of the Suits statistics tests.

3.1 Poker suits statistics for 52 cards deck:

Test No.	Positions	DOF	ChiSqr	P-Value
1	7	21	16.40	0.74649
2	7	21	22.74	0.35818
3	7	21	23.68	0.30880
4	7	21	26.24	0.19752
5	7	21	15.21	0.81224
6	7	21	19.91	0.52687
7	7	21	23.77	0.30457
8	7	21	16.14	0.76187
9	7	21	16.14	0.76157
10	7	21	18.86	0.59410
11	7	21	18.37	0.62533
12	7	21	9.58	0.98389
13	7	21	28.81	0.11861
14	7	21	31.00	0.07364
15	7	21	12.28	0.93183
16	7	21	24.78	0.25692

Test No.	Positions	DOF	ChiSqr	P-Value
17	7	21	35.47	0.02507
18	7	21	10.41	0.97304
19	7	21	17.73	0.66614
20	7	21	16.10	0.76379
21	7	21	18.05	0.64610
22	7	21	15.94	0.77289
23	7	21	30.66	0.07952
24	7	21	38.99	0.00985
25	7	21	13.79	0.87827
26	7	21	11.05	0.96178
27	7	21	13.84	0.87630
28	7	21	30.12	0.08964
29	7	21	19.25	0.56943
30	7	21	16.61	0.73475
31	7	21	16.76	0.72550
32	7	21	13.47	0.89134
33	7	21	14.87	0.82934
34	7	21	16.37	0.74849
35	7	21	30.41	0.08407
36	7	21	20.49	0.49022
37	7	21	23.83	0.30155
38	7	21	15.49	0.79742

Test No.	Positions	DOF	ChiSqr	P-Value
39	7	21	17.02	0.71013
40	7	21	14.88	0.82871
41	7	21	18.27	0.63189
42	7	21	18.00	0.64897
43	7	21	26.17	0.19987
44	7	21	26.95	0.17258
45	7	21	23.40	0.32307
46	7	21	20.23	0.50653
47	7	21	18.01	0.64826
48	7	21	10.57	0.97046
49	7	21	17.41	0.68624
50	7	21	9.87	0.98051
51	7	21	21.34	0.43829
52	7	21	24.01	0.29247
53	7	21	18.08	0.64377
54	7	21	12.88	0.91287
55	7	21	17.85	0.65877
56	7	21	18.68	0.60587
57	7	21	18.37	0.62553
58	7	21	24.72	0.25935
59	7	21	20.22	0.50761
60	7	21	24.25	0.28126

Test No.	Positions	DOF	ChiSqr	P-Value
61	7	21	16.39	0.74744
62	7	21	20.94	0.46243
63	7	21	14.33	0.85485
64	7	21	15.05	0.82020
65	7	21	24.98	0.24789
66	7	21	31.32	0.06851
67	7	21	8.98	0.98941
68	7	21	17.21	0.69825
69	7	21	29.01	0.11372
70	7	21	22.87	0.35111
71	7	21	15.78	0.78192
72	7	21	31.34	0.06813
73	7	21	17.30	0.69273
74	7	21	22.25	0.38536
75	7	21	28.92	0.11584
76	7	21	21.96	0.40186
77	7	21	38.40	0.01158
78	7	21	30.15	0.08903
79	7	21	25.25	0.23666
80	7	21	12.67	0.91984
81	7	21	17.00	0.71090
82	7	21	20.57	0.48549

Test No.	Positions	DOF	ChiSqr	P-Value
83	7	21	21.71	0.41620
84	7	21	21.26	0.44310
85	7	21	35.83	0.02287
86	7	21	20.94	0.46274
87	7	21	28.48	0.12716
88	7	21	38.07	0.01264
89	7	21	32.16	0.05644
90	7	21	25.75	0.21628
91	7	21	20.64	0.48136
92	7	21	27.03	0.16998
93	7	21	25.06	0.24453
94	7	21	26.04	0.20486
95	7	21	12.43	0.92718
96	7	21	18.64	0.60801
97	7	21	15.90	0.77521
98	7	21	16.52	0.74002
99	7	21	21.13	0.45089
100	7	21	29.80	0.09609
Combined P-value for all tests (Using KS method)				0.59593

Notes:

- 1) The P-values are observed probabilities from the Chi-Square tests. The last row shows the result of the KS Test performed on the p-values for all Chi-Square tests, where there are sufficient data.

4. Summary of the analysis

4.1 Summary of the analysis of 52 cards deck:

The analysis of 52 cards completes by combining the result of the KS Test performed in the 3 types of analysis (Hand Types, Ranks and Suits) for 52 card decks using the Holm's method and producing a single Combined P -value.

The combined p-value produced using the Holm's method is used as indication for statistical randomness.

Combination of p-values using Holm's Method		
Test	P-Value	P-Adjusted
Ranks Test	0.47104	1.00000
Suits Test	0.59593	1.00000
Hand Types Test	0.97848	1.00000
Combined P-Value using Holm's Method		1.00000

Notes:

- 1) The combined p-value of all statistical tests using Holm's Method conducted for 52 card decks is greater than the minimum value of 0.05 which indicates that the randomness of the observed data falls within 95% confidence limits.

The final outcome of the analysis of 52 cards deck indicates that the RNG is working correctly.

Conclusion

Analysis of actual data from game logs for 'Hand Types', 'Ranks' and 'Suits' for 52-card decks indicated statistical randomness. Since there is no data in the case of 36 card deck, this report does not contain the details of 36 card deck.

GLI has done limited sanity checks to verify the integrity of the game logs. GLI also maintains a copy of the game logs for verification purposes. There were a large enough number of game records to give the calculations sufficient statistical power.

We conclude that the Random Number Generator (RNG) is working correctly.

Please note, the results contained herein are based on game design documentation provided to GLI by the manufacturer. It is the responsibility of the manufacturer to ensure that the gaming software performs in the same way as the documentation.

Please visit Gaminglabs.com to view the applicable Terms and Conditions and GLI Product Certification Scheme.

Should you have any questions or need any additional information, please feel free to contact our office.

Sincerely,

GAMING LABORATORIES INTERNATIONAL, LLC



Christine M. Gallo

Senior Vice President, Quality and Technical Compliance

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