DAFTAR PUSTAKA

Abd-Rahim, F., Wasoh, H., Zakaria, M.R., Ariff, A., Kapri, R., Ramli, N., Siew-Ling, L. 2014. *Production of high yield sugars from Kappaphycus alvarezii using combined methods of chemical and enzymatic hydrolysis*. Food Hydrocolloids 42 (2), 309–315.

Achmad, Herliyana, E. N., & Wartaka. 2008. *Studi pertumbuhan beberapa isolat jamur tiram (Pleorotus spp.) pada berbagai media berlignin*. Jurnal Pengkajian Dan Pengembangan Teknologi Pertanian, 11(3), 259–267.

Ahmad, Riza Zainuddin. 2005. *Pemanfaatan Khamir Saccharomyces cerevisiae Untuk Ternak*. Jurnal Wartaroza Vol. 1 No. 1. Bogor: BalaiPenelitian Veteriner

Ahmad, Sofyan, S., 2020. *Pemodelan System Dynamics Untuk Analisis Dinamika Produksi , Konsumsi, Dan Cadangan Minyak Indonesia*. Universitas Pertamina.

Afrizal, 2010. *Industri Kelapa Sawit*. http://repository.usu.ac.id/bitstream/ 123456789/20773/4/Chapter%20II.pdf. Diunduh tanggal 11 November 2020.

Agustining, D. 2012. *Daya hambat saccharomyces cerevisiae terhadap pertumbuhan jamur fusarium oxyporum*. Skripsi. Universitas Jember.

Ahmad, Riza Zainuddin. 2005. *Pemanfaatan Khamir Saccaromyces Cerevisiae Untuk Ternak.* Jurnal wartaroza Vol. 1 No. 1. Bogor: Balai penelitian Veteriner.

Aleman-Ramirez, JL, Perez-Sari nana, BY, Torres-Arellano, S., Salda ~ na-Trinidad, S., ~ Longoria, A., Sebastian, PJ, 2019. *Bioethanol production from Ataulfo mango supplemented with vermicompost leachate*. Catal. Hari ini. https://doi.org/ 10.1016/j.cattod.2019.07.028 (in press).

Awatshi, M., Kaur, J., and Rana, S. (2013). *Bioetanol production through water*

hiyacint Eichornia crassipes via optimization of the preteratment condition. International Journal of Emerging Technology and Advanced Engineering. 3(3): 42- 46.

Azizah, N, dkk. 2012. *Pengaruh Lama Fermentasi Terhadap Kadar Alkohol, pH, dan Produksi Gas Pada Proses Fermentasi Bioetanol Dari Whey Dengan Subtitusi Kulit Nanas*. *Reasearch Not.* Jurnal Teknologi Aplikasi Pangan.

Azka, Rohbiya, R., 2020. *Simulasi Dinamika Molekul pada Proses Delignifikasi dengan Pelarut Low Transition Temperature Mixtures (LTTM) Menggunakan Aplikasi GROMACS.* Universitas Pertamina.

Binkley D, Senock R, Bird S, Cole TG. 2003. Twenty years of stand development in pure and mixed stands of Eucalyptus saligna and nitrogen-fixing Facaltaria moluccana. For Ecol Manage 182: 93–102.

Binod, P., Sindhu, R., Janu, K. U., & Pandey, A. 2019. *Hydrolys of Cellulosic and Hemicellulosic Biomass.* Biofuels: Alternative Feedstocks and Conversion Processes for the Production of Liquid and Gaseous Biofuels, 447-460. doi: 10.1016/b978-0-12-816856-1.00019-1.

Bule, M. V., Gao, A. H., Hiscox, B., & Chen, S. 2013. *Structural modification of lignin and characterization of pretreated wheat straw by ozonation*. Journal of agricultural and food chemistry , 61, 3916-3925.

Chamnipa, N., Thanonkeo, S., Klanrit, P., 2017. *The potential of the newly isolated thermotolerant yeast Pichia kudriavzevii RZ8-1 for high-temperature ethanol production. Braz. J. Microbiol*. 49 (2), 378e391. https://doi.org/10.1016/ j.bjm.2017.09.002.

Cheng, N., Yamamoto, Y., Koda, K., Tamai, Y., & Uraki, Y. (2014). *Amphipathic lignin derivatives to accelerate simultaneous saccharification and fermentation of unbleached softwood pulp for bioethanol production*. 104-Bioresource Technology, 173 109. doi:

10.1016/j.biortech. 2014.09.093.

Delabona, S., Sanchez, C., Ribeiro, M., Freitas, S., Geraldo, J., 2012. *Use of a new Trichoderma harzianum strain isolated from the Amazon rainforest with pre treated sugar cane bagasse for on-site cellulase production. Bioresour.* Technol . 107, 517e521 . https://doi . org/10 . 1016/ j.biortech.2011.12.048.

Galbe, M., & Zacchi, G. 2002. *A riview of production of ethanol from softwood*. Applied Microbilogy and Biotechnology, 59(6), 618-628. https://doi.org/ 10.1007/s00253-002-1058-9.

Garcia-Cubero, M. T., Gonzales-Benito, G., Indacoechea, I., Coca, M., & Balado, S. 2009. *Effect of ozonolysis pretreatment on enzymaticdigestibility of wheat and rye straw.* Bioresource Technology, 100(4), 1608-1613. https:// doi.org/10.1016/j.

H. Chen, S. Jin. 2006. *Effect Of Ethanol and Khamir on Cellulace Activity and Hydrolysis of Crystalline Cellulose, Enzym Microb.* Technol. 39.1430-1432.

Jamil, A., Ahmed, S., & Al, E. T., 2009. *Production and Purification of Cellulose-Degrading Enzymes From a Filamentous Fungus*. *Pak. J. Bot.*, *41*(3), 1411–1419.

J. Cerazy-Waliszewska et al., 2019. "*Potential of bioethanol production from biomass of various Miscanthus genotypes cultivated in three-year plantations in west-central Poland*," Ind. Crops Prod., vol. 141.

Jibouri, A. K. H. Al, Turcotte, G., Wu, J., & Cheng, C. 2015. *Ozone pretreatment of humit wheat straw for biofuel production. Enery Science and Engineering.*, 3, 541-548. https://doi.org/10.1002/ese3.93.

Kementerian Kehutanan Republik Indonesia. 2018. *Statistik Kehutanan Indonesia Kementerian Kehutanan*, Jakarta.

KESDM. 2019. Indonesia Energi Outlook 2019. Jakarta: Kementerian Energi

dan Sumber Daya Mineral (KESDM). Diaksesdari https://www.esdm.go.id/ assets/media/content/content-outlookenergi-indonesia-2019-bahasa-indonesia.pdf.

Krisnawati, H. 2011. *Paraserianthes falcataria (L.) Nielsen (Ekologi, Silvikultur dan Produktivitas)*. Bogor:CIFOR.

Lee, H., Lee, Y.M., Heo, Y.M., Lee, H., Hong, J.H., Jang, S., Min, M., Lee, J., Kim, J.S., Kim, G.H., Kim, J.J., 2015. *Optimization of endoglucanase production by trichoderma harzianum KUC1716 and enzymatic hydrolysis of lignocellulosic biomass.* Bioresources 10 (4), 7466–7476.

Maspary, 2011. *Trichoderma sp. Sebagai Pupuk Biologis dan Biofungisida.* http:// www.gerbangpertanian.com/2011/02/tric hoderma-sp-sebagai-pupuk-biologis.html. Diunduh tanggal 11 November 2020.

Mentri lingkungan hidup dan kehutanan,. 2020. *Hutan dan Deforestasi Indonesia 2019*. Nomor: sp.162/humas/pp/Hms.3/4/2020.

Mishra, A., Srivastava, S., & Drivastava, M. 2014. *Evaluation of anti diarrheal potential of Moringa oleivera (Lam.) leaves*. Journal of Pharmacognosy and phytochemistry, 2(5), 43-46.

Praptoyo, H., & Puspitasari, R. 2012. *Variasi Sifat Anatomi Kayu Sengon (Paraserianthes falcataria (L) Nielsen) dari dua jenis pemudaan yang berbeda*. In Seminar Nasional Mapeki XV (pp. 33-41). Makassar.

Purwanto, D. 2009. *Analisa jenis limbah kayu pada industri pengolahan kayu di Kalimantan Selatan.* Jurnal Riset Industri Hasil Hutan, 1(1), 14-20.

Rifai M.A. 1969. *A Revision of Genus Tricoderma. Mycological.* Paper No 116

Santoso, H, B. 1992. *Budidaya Sengon*. Yogyakarta: Kanisius.

Shokrkar, H., Ebrahimi, S., Zamani, M., 2017. *Bioethanol production from acidic and enzymatic hydrolysates of mixed microalgae culture*. Fuel 200, 380e386. *https://doi.org/10.1016/j.fuel.2017.03.090.*

Siregar, Z. 2008. *Kayu Sengon*. Bogor: Penebar Swadaya.

Soesanto, L. 2004. *Ilmu Penyakit Pascapanen: Sebuah Pengantar*.

Universitas Jenderal Soedirman, Purwokerto.

Sulfahri, 2012. *Optimalisasi Biokonversi Hasil Hidrolisis Alga spirogyra hyalina menjadi etanol menggunakan zymomonas mobilis dan saccaromyces cerevisiae*. Program studi magister (S2) Biologi. Departemen biologi, fakultas sains dan teknologi. Universitas airlangga. Surabaya

Sulfahri, Amin, M., Sumitro, S.B., & Murni, S. 2016. *Bioetanol Alga Spirogyra, Bahan Bakar Masa Depan*. Yogyakarta. Leutikaprio.

Sun Y., & Cheng, J. 2002. *Hydrolysis of lignocellulosic materials for ethanol production: A review*. *Bioresource Technology*, 83(1), 1-11. https://doi.org/ 10.1016/S0960-8524(01)00212-7.

Tomi, Ardiansyah. 2017. *Pohon Sengon (Paraserianthes falcataria) : Budidaya, Jenis dan Keuntungan* . Media Kehutanan dan Lingkungan Hidup:ForestAct. https://foresteract.com/pohon-sengon-paraserianthes-falcataria/

Travaini, R., Martin-Juarez, J., Lorenzo-hernando, A., &Rodriguez, S. B. 2016. *Ozonolysis: An advantageous pretreatment for lignocellulosic biomass revisited. Bioresource Technology.*, 199, 2-12. https://doi.org/10.1016/ j.biortech.2015.08.143.

Triantarti. 2009. *Opyimalisasi PH dan Suhu Sukrosa dengan Enzim Invertase pada Tumbuhan Sirup Invert*. Jurnal Sains FMIPA Universitas Negeri Malang, No. 1, Vol 38, Juli-2009.

Verardi, A., Bari, I. De, Ricca, E., & Calabro, V. 2012. *Hydrolisis of lignocellulosic biomass: Current statusof processes and technologiesand fiture perspective*. Dalam M. A. P. Lima (Ed.), Biorthanol (p. 290).

https:// doi.org/10.5772/23987.

V. S. Arutyunov and G. V Lisichkin, "*Energy resources of the 21st century: problems and forecasts. Can renewable energy sources replace fossil fuels?*," Russ. Chem. Rev., vol. 86, no. 8, pp. 777–804, Aug. 2017.

Wahyudi, Suwahyono, Harsoyo, Mumpuni, Wahyuningsih, 2005. *Pengaruh Pemaparan Sinar Gamma Isotop Cobalt-60 Dosis 0,25–1 kGy Terhadap Daya Antagonistik Trichoderma harzianum pada Fusarium oxysporum*. Berkala Penelitian Hayati, 10 (2): 143-151.

Warisno dan Kres Dahana. 2009. *Investasi Sengon*. Jakarta: PT.Gramedia.

Wood, N., Roelich, K., 2019. *Energy Research & Social Science Tensions, capabilities, and justice in climate change mitigation of fossil fuels*. Res Energi. Soc. Sci. 52, 114e122. https://doi.org/10.1016/j.erss.2019.02.014.

Zaenab, S. T,. 2020. Produksi Biosugar Dari Rumput Laut (Kappaphycus alvarezii) melalui Metode Hidrolisis menggunakan Kapang (Trichoderma harzianum) dan Fermentasi menggunakan Khamir (Saccharomycopsis fibulligera)

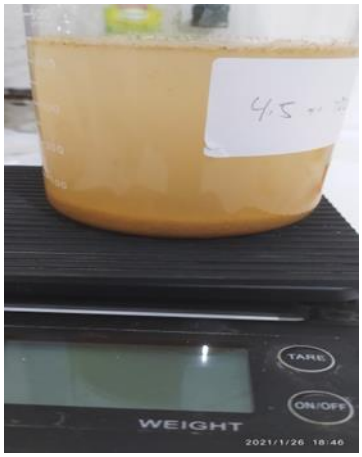
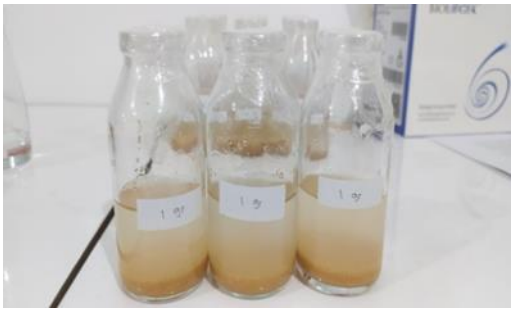
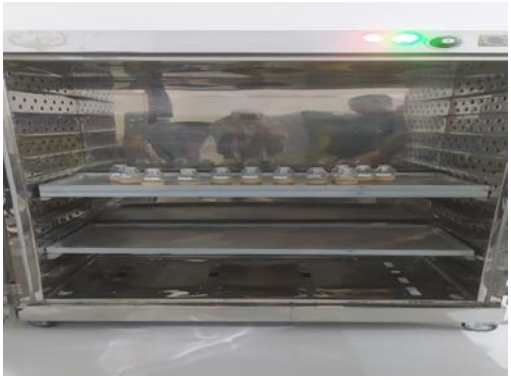
Zhu, S., Huang, W., Wang, K., Chen, Q., Wu, Y. 2015. *Pretreatment of Rice Straw for Ethanol Production by a Two-step Process Using Dilute Sulfuric Acid and Sulfomethylation Reagent. Appl Energy*. 154:190–6

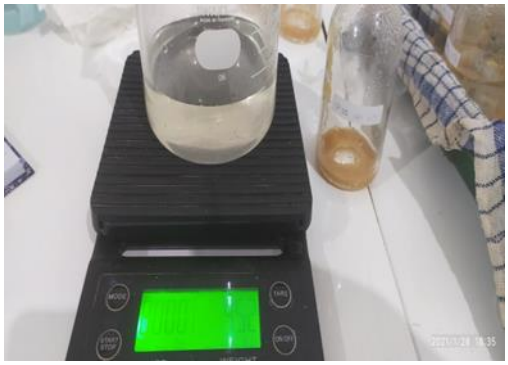
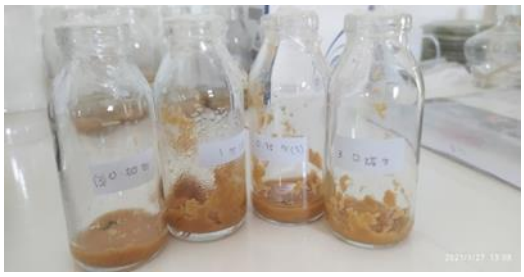
LAMPIRAN

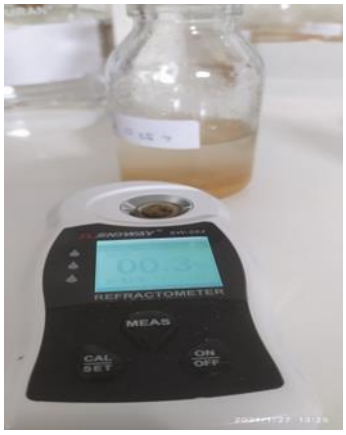
LAMPIRAN

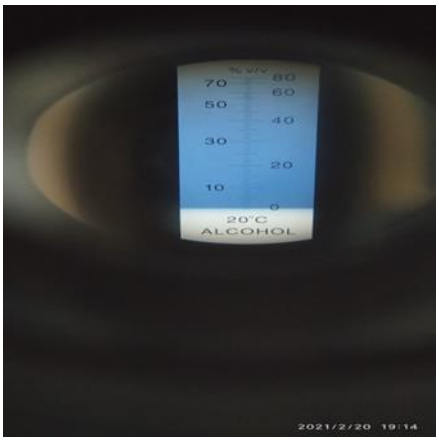
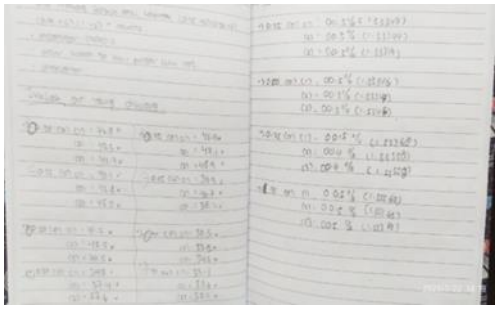
Lampiran 1 Proses Penelitian

No.	Gambar	Nama Kegiatan
1.		Persiapan Sampel
2.		Pemberian perlakuan awal (Oven)
3.		Penimbangan sampel

4.		Penambahan aquades
5.		Proses Ozonolisis
6.		Pembagian ke dalam botol sampel
7.		Proses pengovenan selama 90 menit dengan suhu 100℃

8.		Penetralan suhu sampai dengan 40°C
9.		Pengambilan aquades untuk proses inokulasi
10.		Proses inokulasi
11.		Inkubasi dengan waktu yang telah ditentukan
12.		Penambahan aquades (sisa (aq) yang telah dipisahkan sebelumnya)

13.		Pengukuran kadar gula
14.		Penimbangan kertas saring
15.		Penyaringan supernatan
16.		Pengovenan kertas saring
17.		Pengukuran biomassa sel

18.		Penambahan yeast *Saccaromyces cerevisiae*
19.		Proses fermentasi
20.		Perhitungan kadar ethanol
21.		Pencatatan Logbook penelitian

Lampiran 2 Analisis Hidrolisis

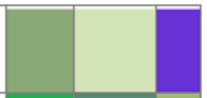
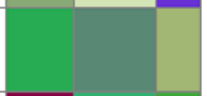
Table Analyzed	Data 3				
Two-way ANOVA	Ordinary				
Alpha	0.05				
Source of VariaAon	% of total variaAon	P value	P value summary	Significant?	
InteracAon	15.6	<0.0001	****	Yes	
Row Factor	11.3	<0.0001	****	Yes	
Column Factor	63.46	<0.0001	****	Yes	
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
InteracAon	0.2671	10	0.02671	F (10, 36) = 5.826	P<0.0001
Row Factor	0.1936	5	0.03871	F (5, 36) = 8.443	P<0.0001
Column Factor	1.087	2	0.5434	F (2, 36) = 118.5	P<0.0001
Residual	0.1651	36	0.004585		
Spearman's test for heteroscedasAcity					
Rs of predicted Y vs. |residual|	0.1498				
P value (one tailed)	0.1398				
Passed (P > 0.05)?	Yes				

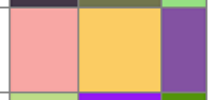
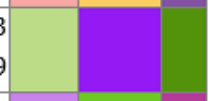
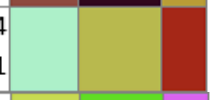
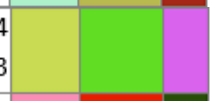
Normality of Residuals				
Test name	StaAsAcs	P value	Passed normality test (alpha=0.05)?	P value summary
Anderson-Darling (A2*)	4.471	<0.0001	No	****
D'AgosAno-Pearson omnibus (K2)	12.94	0.0016	No	**
Shapiro-Wilk (W)	0.812	<0.0001	No	****
Kolmogorov-Smirnov (distance)	0.2963	<0.0001	No	****
Data summary				
Number of columns (Column Factor)	3			
Number of rows (Row Factor)	6			
Number of values	54			

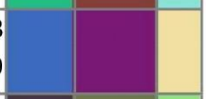
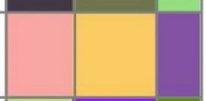
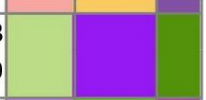
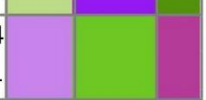
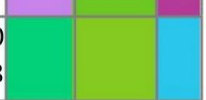
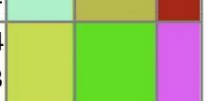
Lampiran 3 Hidrolisis (Tukey)

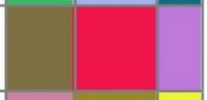
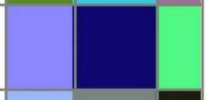
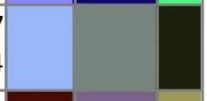
Compare cell means regardless of rows and columns	
Number of families	1
Number of comparisons per family	153
Alpha	0.05

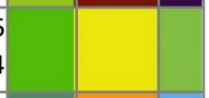
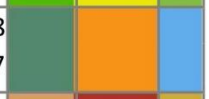
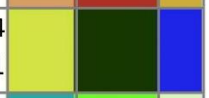
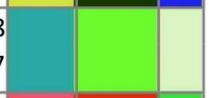
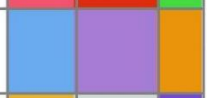
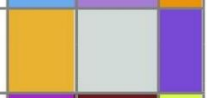
Tukey's mulAple comparisons test	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
0:0.50 vs. 0:0.75	0.2267	0.01932 to 0.4340	Yes	*	0.0207
0:0.50 vs. 0:1,00	0.4333	0.2260 to 0.6407	Yes	****	<0.0001
0:0.50 vs. 2:0.50	0.06667	-0.1407 to 0.2740	No	ns	0.9985
0:0.50 vs. 2:0.75	0.3567	0.1493 to 0.5640	Yes	****	<0.0001
0:0.50 vs. 2:1,00	0.5	0.2926 to 0.7074	Yes	****	<0.0001
0:0.50 vs. 4:0.50	0.2	-0.007350 to 0.4074	No	ns	0.0687
0:0.50 vs. 4:0.75	0.2267	0.01932 to 0.4340	Yes	*	0.0207
0:0.50 vs. 4:1,00	0.3	0.09265 to 0.5074	Yes	***	0.0005
0:0.50 vs. 6:0.50	0	-0.2074 to 0.2074	No	ns	>0.9999
0:0.50 vs. 6:0.75	0.2267	0.01932 to 0.4340	Yes	*	0.0207
0:0.50 vs. 6:1,00	0.3333	0.1260 to 0.5407	Yes	****	<0.0001
0:0.50 vs. 8:0.50	0	-0.2074 to 0.2074	No	ns	>0.9999
0:0.50 vs. 8:0.75	0.27	0.06265 to 0.4774	Yes	**	0.0024
0:0.50 vs. 8:1,00	0.2	-0.007350 to 0.4074	No	ns	0.0687
0:0.50 vs. 10:0.50	-0.2	-0.4074 to 0.007350	No	ns	0.0687
0:0.50 vs. 10:0.75	0.27	0.06265 to 0.4774	Yes	**	0.0024
0:0.50 vs. 10:1,00	0.3	0.09265 to 0.5074	Yes	***	0.0005
0:0.75 vs. 0:1,00	0.2067	-0.0006837 to 0.4140	No	ns	0.0515
0:0.75 vs. 2:0.50	-0.16	-0.3674 to 0.04735	No	ns	0.3043

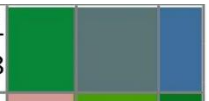
0:0.75 vs. 2:0.75	0.13	-0.07735 to 0.3374	No	ns	0.6444	
0:0.75 vs. 2:1,00	0.2733	0.06598 to 0.4807	Yes	**	0.002	
0:0.75 vs. 4:0.50	-0.02667	-0.2340 to 0.1807	No	ns	>0.9999	
0:0.75 vs. 4:0.75	0	-0.2074 to 0.2074	No	ns	>0.9999	
0:0.75 vs. 4:1,00	0.07333	-0.1340 to 0.2807	No	ns	0.9958	
0:0.75 vs. 6:0.50	-0.2267	-0.4340 to -0.01932	Yes	*	0.0207	
0:0.75 vs. 6:0.75	0	-0.2074 to 0.2074	No	ns	>0.9999	
0:0.75 vs. 6:1,00	0.1067	-0.1007 to 0.3140	No	ns	0.8818	
0:0.75 vs. 8:0.50	-0.2267	-0.4340 to -0.01932	Yes	*	0.0207	
0:0.75 vs. 8:0.75	0.04333	-0.1640 to 0.2507	No	ns	>0.9999	
0:0.75 vs. 8:1,00	-0.02667	-0.2340 to 0.1807	No	ns	>0.9999	
0:0.75 vs. 10:0.50	-0.4267	-0.6340 to -0.2193	Yes	****	<0.0001	
0:0.75 vs. 10:0.75	0.04333	-0.1640 to 0.2507	No	ns	>0.9999	
0:0.75 vs. 10:1,00	0.07333	-0.1340 to 0.2807	No	ns	0.9958	
0:1,00 vs. 2:0.50	-0.3667	-0.5740 to -0.1593	Yes	****	<0.0001	
0:1,00 vs. 2:0.75	-0.07667	-0.2840 to 0.1307	No	ns	0.9932	
0:1,00 vs. 2:1,00	0.06667	-0.1407 to 0.2740	No	ns	0.9985	
0:1,00 vs. 4:0.50	-0.2333	-0.4407 to -0.02598	Yes	*	0.015	
0:1,00 vs. 4:0.75	-0.2067	-0.4140 to 0.0006837	No	ns	0.0515	
0:1,00 vs. 4:1,00	-0.1333	-0.3407 to 0.07402	No	ns	0.6041	
0:1,00 vs. 6:0.50	-0.4333	-0.6407 to -0.2260	Yes	****	<0.0001	

0:1,00 vs. 6:0.75	-0.2067	-0.4140 to 0.0006837	No	ns	0.0515	
0:1,00 vs. 6:1,00	-0.1	-0.3074 to 0.1074	No	ns	0.9254	
0:1,00 vs. 8:0.50	-0.4333	-0.6407 to -0.2260	Yes	****	<0.0001	
0:1,00 vs. 8:0.75	-0.1633	-0.3707 to 0.04402	No	ns	0.2739	
0:1,00 vs. 8:1,00	-0.2333	-0.4407 to -0.02598	Yes	*	0.015	
0:1,00 vs. 10:0.50	-0.6333	-0.8407 to -0.4260	Yes	****	<0.0001	
0:1,00 vs. 10:0.75	-0.1633	-0.3707 to 0.04402	No	ns	0.2739	
0:1,00 vs. 10:1,00	-0.1333	-0.3407 to 0.07402	No	ns	0.6041	
2:0.50 vs. 2:0.75	0.29	0.08265 to 0.4974	Yes	***	0.0008	
2:0.50 vs. 2:1,00	0.4333	0.2260 to 0.6407	Yes	****	<0.0001	
2:0.50 vs. 4:0.50	0.1333	-0.07402 to 0.3407	No	ns	0.6041	
2:0.50 vs. 4:0.75	0.16	-0.04735 to 0.3674	No	ns	0.3043	
2:0.50 vs. 4:1,00	0.2333	0.02598 to 0.4407	Yes	*	0.015	
2:0.50 vs. 6:0.50	-0.06667	-0.2740 to 0.1407	No	ns	0.9985	
2:0.50 vs. 6:0.75	0.16	-0.04735 to 0.3674	No	ns	0.3043	
2:0.50 vs. 6:1,00	0.2667	0.05932 to 0.4740	Yes	**	0.0028	
2:0.50 vs. 8:0.50	-0.06667	-0.2740 to 0.1407	No	ns	0.9985	
2:0.50 vs. 8:0.75	0.2033	-0.004017 to 0.4107	No	ns	0.0596	
2:0.50 vs. 8:1,00	0.1333	-0.07402 to 0.3407	No	ns	0.6041	
2:0.50 vs. 10:0.50	-0.2667	-0.4740 to -0.05932	Yes	**	0.0028	
2:0.50 vs. 10:0.75	0.2033	-0.004017 to 0.4107	No	ns	0.0596	

0:1,00 vs. 6:1,00	-0.1	-0.3074 to 0.1074	No	ns	0.9254	
0:1,00 vs. 8:0.50	-0.4333	-0.6407 to -0.2260	Yes	****	<0.0001	
0:1,00 vs. 8:0.75	-0.1633	-0.3707 to 0.04402	No	ns	0.2739	
0:1,00 vs. 8:1,00	-0.2333	-0.4407 to -0.02598	Yes	*	0.015	
0:1,00 vs. 10:0.50	-0.6333	-0.8407 to -0.4260	Yes	****	<0.0001	
0:1,00 vs. 10:0.75	-0.1633	-0.3707 to 0.04402	No	ns	0.2739	
0:1,00 vs. 10:1,00	-0.1333	-0.3407 to 0.07402	No	ns	0.6041	
2:0.50 vs. 2:0.75	0.29	0.08265 to 0.4974	Yes	***	0.0008	
2:0.50 vs. 2:1,00	0.4333	0.2260 to 0.6407	Yes	****	<0.0001	
2:0.50 vs. 4:0.50	0.1333	-0.07402 to 0.3407	No	ns	0.6041	
2:0.50 vs. 4:0.75	0.16	-0.04735 to 0.3674	No	ns	0.3043	
2:0.50 vs. 4:1,00	0.2333	0.02598 to 0.4407	Yes	*	0.015	
2:0.50 vs. 6:0.50	-0.06667	-0.2740 to 0.1407	No	ns	0.9985	
2:0.50 vs. 6:0.75	0.16	-0.04735 to 0.3674	No	ns	0.3043	
2:0.50 vs. 6:1,00	0.2667	0.05932 to 0.4740	Yes	**	0.0028	
2:0.50 vs. 8:0.50	-0.06667	-0.2740 to 0.1407	No	ns	0.9985	
2:0.50 vs. 8:0.75	0.2033	-0.004017 to 0.4107	No	ns	0.0596	
2:0.50 vs. 8:1,00	0.1333	-0.07402 to 0.3407	No	ns	0.6041	
2:0.50 vs. 10:0.50	-0.2667	-0.4740 to -0.05932	Yes	**	0.0028	
2:0.50 vs. 10:0.75	0.2033	-0.004017 to 0.4107	No	ns	0.0596	

2:0.50 vs. 10:1,00	0.2333	0.02598 to 0.4407	Yes	*	0.015	
2:0.75 vs. 2:1,00	0.1433	-0.06402 to 0.3507	No	ns	0.4834	
2:0.75 vs. 4:0.50	-0.1567	-0.3640 to 0.05068	No	ns	0.3367	
2:0.75 vs. 4:0.75	-0.13	-0.3374 to 0.07735	No	ns	0.6444	
2:0.75 vs. 4:1,00	-0.05667	-0.2640 to 0.1507	No	ns	0.9998	
2:0.75 vs. 6:0.50	-0.3567	-0.5640 to -0.1493	Yes	****	<0.0001	
2:0.75 vs. 6:0.75	-0.13	-0.3374 to 0.07735	No	ns	0.6444	
2:0.75 vs. 6:1,00	-0.02333	-0.2307 to 0.1840	No	ns	>0.9999	
2:0.75 vs. 8:0.50	-0.3567	-0.5640 to -0.1493	Yes	****	<0.0001	
2:0.75 vs. 8:0.75	-0.08667	-0.2940 to 0.1207	No	ns	0.9774	
2:0.75 vs. 8:1,00	-0.1567	-0.3640 to 0.05068	No	ns	0.3367	
2:0.75 vs. 10:0.50	-0.5567	-0.7640 to -0.3493	Yes	****	<0.0001	
2:0.75 vs. 10:0.75	-0.08667	-0.2940 to 0.1207	No	ns	0.9774	
2:0.75 vs. 10:1,00	-0.05667	-0.2640 to 0.1507	No	ns	0.9998	
2:1,00 vs. 4:0.50	-0.3	-0.5074 to -0.09265	Yes	***	0.0005	
2:1,00 vs. 4:0.75	-0.2733	-0.4807 to -0.06598	Yes	**	0.002	
2:1,00 vs. 4:1,00	-0.2	-0.4074 to 0.007350	No	ns	0.0687	
2:1,00 vs. 6:0.50	-0.5	-0.7074 to -0.2926	Yes	****	<0.0001	
2:1,00 vs. 6:0.75	-0.2733	-0.4807 to -0.06598	Yes	**	0.002	
2:1,00 vs. 6:1,00	-0.1667	-0.3740 to 0.04068	No	ns	0.2456	

2:1,00 vs. 8:0.50	-0.5	-0.7074 to -0.2926	Yes	****	<0.0001	
2:1,00 vs. 8:0.75	-0.23	-0.4374 to -0.02265	Yes	*	0.0176	
2:1,00 vs. 8:1,00	-0.3	-0.5074 to -0.09265	Yes	***	0.0005	
2:1,00 vs. 10:0.50	-0.7	-0.9074 to -0.4926	Yes	****	<0.0001	
2:1,00 vs. 10:0.75	-0.23	-0.4374 to -0.02265	Yes	*	0.0176	
2:1,00 vs. 10:1,00	-0.2	-0.4074 to 0.007350	No	ns	0.0687	
4:0.50 vs. 4:0.75	0.02667	-0.1807 to 0.2340	No	ns	>0.9999	
4:0.50 vs. 4:1,00	0.1	-0.1074 to 0.3074	No	ns	0.9254	
4:0.50 vs. 6:0.50	-0.2	-0.4074 to 0.007350	No	ns	0.0687	
4:0.50 vs. 6:0.75	0.02667	-0.1807 to 0.2340	No	ns	>0.9999	
4:0.50 vs. 6:1,00	0.1333	-0.07402 to 0.3407	No	ns	0.6041	
4:0.50 vs. 8:0.50	-0.2	-0.4074 to 0.007350	No	ns	0.0687	
4:0.50 vs. 8:0.75	0.07	-0.1374 to 0.2774	No	ns	0.9975	
4:0.50 vs. 8:1,00	0	-0.2074 to 0.2074	No	ns	>0.9999	
4:0.50 vs. 10:0.50	-0.4	-0.6074 to -0.1926	Yes	****	<0.0001	
4:0.50 vs. 10:0.75	0.07	-0.1374 to 0.2774	No	ns	0.9975	
4:0.50 vs. 10:1,00	0.1	-0.1074 to 0.3074	No	ns	0.9254	
4:0.75 vs. 4:1,00	0.07333	-0.1340 to 0.2807	No	ns	0.9958	
4:0.75 vs. 6:0.50	-0.2267	-0.4340 to -0.01932	Yes	*	0.0207	
4:0.75 vs. 6:0.75	0	-0.2074 to 0.2074	No	ns	>0.9999	

4:0.75 vs. 6:1,00	0.1067	-0.1007 to 0.3140	No	ns	0.8818	
4:0.75 vs. 8:0.50	-0.2267	-0.4340 to -0.01932	Yes	*	0.0207	
4:0.75 vs. 8:0.75	0.04333	-0.1640 to 0.2507	No	ns	>0.9999	
4:0.75 vs. 8:1,00	-0.02667	-0.2340 to 0.1807	No	ns	>0.9999	
4:0.75 vs. 10:0.50	-0.4267	-0.6340 to -0.2193	Yes	****	<0.0001	
4:0.75 vs. 10:0.75	0.04333	-0.1640 to 0.2507	No	ns	>0.9999	
4:0.75 vs. 10:1,00	0.07333	-0.1340 to 0.2807	No	ns	0.9958	
4:1,00 vs. 6:0.50	-0.3	-0.5074 to -0.09265	Yes	***	0.0005	
4:1,00 vs. 6:0.75	-0.07333	-0.2807 to 0.1340	No	ns	0.9958	
4:1,00 vs. 6:1,00	0.03333	-0.1740 to 0.2407	No	ns	>0.9999	
4:1,00 vs. 8:0.50	-0.3	-0.5074 to -0.09265	Yes	***	0.0005	
4:1,00 vs. 8:0.75	-0.03	-0.2374 to 0.1774	No	ns	>0.9999	
4:1,00 vs. 8:1,00	-0.1	-0.3074 to 0.1074	No	ns	0.9254	
4:1,00 vs. 10:0.50	-0.5	-0.7074 to -0.2926	Yes	****	<0.0001	
4:1,00 vs. 10:0.75	-0.03	-0.2374 to 0.1774	No	ns	>0.9999	
4:1,00 vs. 10:1,00	0	-0.2074 to 0.2074	No	ns	>0.9999	
6:0.50 vs. 6:0.75	0.2267	0.01932 to 0.4340	Yes	*	0.0207	
6:0.50 vs. 6:1,00	0.3333	0.1260 to 0.5407	Yes	****	<0.0001	
6:0.50 vs. 8:0.50	0	-0.2074 to 0.2074	No	ns	>0.9999	
6:0.50 vs. 8:0.75	0.27	0.06265 to 0.4774	Yes	**	0.0024	

6:0.50 vs. 8:1,00	0.2	-0.007350 to 0.4074	No	ns	0.0687	
6:0.50 vs. 10:0.50	-0.2	-0.4074 to 0.007350	No	ns	0.0687	
6:0.50 vs. 10:0.75	0.27	0.06265 to 0.4774	Yes	**	0.0024	
6:0.50 vs. 10:1,00	0.3	0.09265 to 0.5074	Yes	***	0.0005	
6:0.75 vs. 6:1,00	0.1067	-0.1007 to 0.3140	No	ns	0.8818	
6:0.75 vs. 8:0.50	-0.2267	-0.4340 to -0.01932	Yes	*	0.0207	
6:0.75 vs. 8:0.75	0.04333	-0.1640 to 0.2507	No	ns	>0.9999	
6:0.75 vs. 8:1,00	-0.02667	-0.2340 to 0.1807	No	ns	>0.9999	
6:0.75 vs. 10:0.50	-0.4267	-0.6340 to -0.2193	Yes	****	<0.0001	
6:0.75 vs. 10:0.75	0.04333	-0.1640 to 0.2507	No	ns	>0.9999	
6:0.75 vs. 10:1,00	0.07333	-0.1340 to 0.2807	No	ns	0.9958	
6:1,00 vs. 8:0.50	-0.3333	-0.5407 to -0.1260	Yes	****	<0.0001	
6:1,00 vs. 8:0.75	-0.06333	-0.2707 to 0.1440	No	ns	0.9992	
6:1,00 vs. 8:1,00	-0.1333	-0.3407 to 0.07402	No	ns	0.6041	
6:1,00 vs. 10:0.50	-0.5333	-0.7407 to -0.3260	Yes	****	<0.0001	
6:1,00 vs. 10:0.75	-0.06333	-0.2707 to 0.1440	No	ns	0.9992	
6:1,00 vs. 10:1,00	-0.03333	-0.2407 to 0.1740	No	ns	>0.9999	
8:0.50 vs. 8:0.75	0.27	0.06265 to 0.4774	Yes	**	0.0024	
8:0.50 vs. 8:1,00	0.2	-0.007350 to 0.4074	No	ns	0.0687	
8:0.50 vs. 10:0.50	-0.2	-0.4074 to 0.007350	No	ns	0.0687	

8:0.50 vs. 10:0.75	0.27	0.06265 to 0.4774	Yes	**	0.0024			
8:0.50 vs. 10:1,00	0.3	0.09265 to 0.5074	Yes	***	0.0005			
8:0.75 vs. 8:1,00	-0.07	-0.2774 to 0.1374	No	ns	0.9975			
8:0.75 vs. 10:0.50	-0.47	-0.6774 to -0.2626	Yes	****	<0.0001			
8:0.75 vs. 10:0.75	0	-0.2074 to 0.2074	No	ns	>0.9999			
8:0.75 vs. 10:1,00	0.03	-0.1774 to 0.2374	No	ns	>0.9999			
8:1,00 vs. 10:0.50	-0.4	-0.6074 to -0.1926	Yes	****	<0.0001			
8:1,00 vs. 10:0.75	0.07	-0.1374 to 0.2774	No	ns	0.9975			
8:1,00 vs. 10:1,00	0.1	-0.1074 to 0.3074	No	ns	0.9254			
10:0.50 vs. 10:0.75	0.47	0.2626 to 0.6774	Yes	****	<0.0001			
10:0.50 vs. 10:1,00	0.5	0.2926 to 0.7074	Yes	****	<0.0001			
10:0.75 vs. 10:1,00	0.03	-0.1774 to 0.2374	No	ns	>0.9999			
Test details	Mean 1	Mean 2	Mean Diff.	SE of diff.	N1	N2	q	DF
0:0.50 vs. 0:0.75	0.8	0.5733	0.2267	0.05529	3	3	5.798	36
0:0.50 vs. 0:1,00	0.8	0.3667	0.4333	0.05529	3	3	11.08	36
0:0.50 vs. 2:0.50	0.8	0.7333	0.06667	0.05529	3	3	1.705	36
0:0.50 vs. 2:0.75	0.8	0.4433	0.3567	0.05529	3	3	9.123	36
0:0.50 vs. 2:1,00	0.8	0.3	0.5	0.05529	3	3	12.79	36
0:0.50 vs. 4:0.50	0.8	0.6	0.2	0.05529	3	3	5.116	36

0:0.50 vs. 4:0.75	0.8	0.5733	0.2267	0.05529	3	3	5.798	36
0:0.50 vs. 4:1,00	0.8	0.5	0.3	0.05529	3	3	7.674	36
0:0.50 vs. 6:0.50	0.8	0.8	0	0.05529	3	3	0	36
0:0.50 vs. 6:0.75	0.8	0.5733	0.2267	0.05529	3	3	5.798	36
0:0.50 vs. 6:1,00	0.8	0.4667	0.3333	0.05529	3	3	8.526	36
0:0.50 vs. 8:0.50	0.8	0.8	0	0.05529	3	3	0	36
0:0.50 vs. 8:0.75	0.8	0.53	0.27	0.05529	3	3	6.906	36
0:0.50 vs. 8:1,00	0.8	0.6	0.2	0.05529	3	3	5.116	36
0:0.50 vs. 10:0.50	0.8	1	-0.2	0.05529	3	3	5.116	36
0:0.50 vs. 10:0.75	0.8	0.53	0.27	0.05529	3	3	6.906	36
0:0.50 vs. 10:1,00	0.8	0.5	0.3	0.05529	3	3	7.674	36
0:0.75 vs. 0:1,00	0.5733	0.3667	0.2067	0.05529	3	3	5.286	36
0:0.75 vs. 2:0.50	0.5733	0.7333	-0.16	0.05529	3	3	4.093	36
0:0.75 vs. 2:0.75	0.5733	0.4433	0.13	0.05529	3	3	3.325	36
0:0.75 vs. 2:1,00	0.5733	0.3	0.2733	0.05529	3	3	6.992	36
0:0.75 vs. 4:0.50	0.5733	0.6	-0.02667	0.05529	3	3	0.6821	36
0:0.75 vs. 4:0.75	0.5733	0.5733	0	0.05529	3	3	0	36
0:0.75 vs. 4:1,00	0.5733	0.5	0.07333	0.05529	3	3	1.876	36
0:0.75 vs. 6:0.50	0.5733	0.8	-0.2267	0.05529	3	3	5.798	36
0:0.75 vs. 6:0.75	0.5733	0.5733	0	0.05529	3	3	0	36

0:0.75 vs. 6:1,00	0.5733	0.4667	0.1067	0.05529	3	3	2.728	36
0:0.75 vs. 8:0.50	0.5733	0.8	-0.2267	0.05529	3	3	5.798	36
0:0.75 vs. 8:0.75	0.5733	0.53	0.04333	0.05529	3	3	1.108	36
0:0.75 vs. 8:1,00	0.5733	0.6	-0.02667	0.05529	3	3	0.6821	36
0:0.75 vs. 10:0.50	0.5733	1	-0.4267	0.05529	3	3	10.91	36
0:0.75 vs. 10:0.75	0.5733	0.53	0.04333	0.05529	3	3	1.108	36
0:0.75 vs. 10:1,00	0.5733	0.5	0.07333	0.05529	3	3	1.876	36
0:1,00 vs. 2:0.50	0.3667	0.7333	-0.3667	0.05529	3	3	9.379	36
0:1,00 vs. 2:0.75	0.3667	0.4433	-0.07667	0.05529	3	3	1.961	36
0:1,00 vs. 2:1,00	0.3667	0.3	0.06667	0.05529	3	3	1.705	36
0:1,00 vs. 4:0.50	0.3667	0.6	-0.2333	0.05529	3	3	5.968	36
0:1,00 vs. 4:0.75	0.3667	0.5733	-0.2067	0.05529	3	3	5.286	36
0:1,00 vs. 4:1,00	0.3667	0.5	-0.1333	0.05529	3	3	3.411	36
0:1,00 vs. 6:0.50	0.3667	0.8	-0.4333	0.05529	3	3	11.08	36
0:1,00 vs. 6:0.75	0.3667	0.5733	-0.2067	0.05529	3	3	5.286	36
0:1,00 vs. 6:1,00	0.3667	0.4667	-0.1	0.05529	3	3	2.558	36
0:1,00 vs. 8:0.50	0.3667	0.8	-0.4333	0.05529	3	3	11.08	36
0:1,00 vs. 8:0.75	0.3667	0.53	-0.1633	0.05529	3	3	4.178	36
0:1,00 vs. 8:1,00	0.3667	0.6	-0.2333	0.05529	3	3	5.968	36
0:1,00 vs. 10:0.50	0.3667	1	-0.6333	0.05529	3	3	16.2	36

0:1,00 vs. 10:0.75	0.3667	0.53	-0.1633	0.05529	3	3	4.178	36
0:1,00 vs. 10:1,00	0.3667	0.5	-0.1333	0.05529	3	3	3.411	36
2:0.50 vs. 2:0.75	0.7333	0.4433	0.29	0.05529	3	3	7.418	36
2:0.50 vs. 2:1,00	0.7333	0.3	0.4333	0.05529	3	3	11.08	36
2:0.50 vs. 4:0.50	0.7333	0.6	0.1333	0.05529	3	3	3.411	36
2:0.50 vs. 4:0.75	0.7333	0.5733	0.16	0.05529	3	3	4.093	36
2:0.50 vs. 4:1,00	0.7333	0.5	0.2333	0.05529	3	3	5.968	36
2:0.50 vs. 6:0.50	0.7333	0.8	-0.06667	0.05529	3	3	1.705	36
2:0.50 vs. 6:0.75	0.7333	0.5733	0.16	0.05529	3	3	4.093	36
2:0.50 vs. 6:1,00	0.7333	0.4667	0.2667	0.05529	3	3	6.821	36
2:0.50 vs. 8:0.50	0.7333	0.8	-0.06667	0.05529	3	3	1.705	36
2:0.50 vs. 8:0.75	0.7333	0.53	0.2033	0.05529	3	3	5.201	36
2:0.50 vs. 8:1,00	0.7333	0.6	0.1333	0.05529	3	3	3.411	36
2:0.50 vs. 10:0.50	0.7333	1	-0.2667	0.05529	3	3	6.821	36
2:0.50 vs. 10:0.75	0.7333	0.53	0.2033	0.05529	3	3	5.201	36
2:0.50 vs. 10:1,00	0.7333	0.5	0.2333	0.05529	3	3	5.968	36
2:0.75 vs. 2:1,00	0.4433	0.3	0.1433	0.05529	3	3	3.666	36
2:0.75 vs. 4:0.50	0.4433	0.6	-0.1567	0.05529	3	3	4.007	36
2:0.75 vs. 4:0.75	0.4433	0.5733	-0.13	0.05529	3	3	3.325	36
2:0.75 vs. 4:1,00	0.4433	0.5	-0.05667	0.05529	3	3	1.449	36

2:0.75 vs. 6:0.50	0.4433	0.8	-0.3567	0.05529	3	3	9.123	36
2:0.75 vs. 6:0.75	0.4433	0.5733	-0.13	0.05529	3	3	3.325	36
2:0.75 vs. 6:1,00	0.4433	0.4667	-0.02333	0.05529	3	3	0.5968	36
2:0.75 vs. 8:0.50	0.4433	0.8	-0.3567	0.05529	3	3	9.123	36
2:0.75 vs. 8:0.75	0.4433	0.53	-0.08667	0.05529	3	3	2.217	36
2:0.75 vs. 8:1,00	0.4433	0.6	-0.1567	0.05529	3	3	4.007	36
2:0.75 vs. 10:0.50	0.4433	1	-0.5567	0.05529	3	3	14.24	36
2:0.75 vs. 10:0.75	0.4433	0.53	-0.08667	0.05529	3	3	2.217	36
2:0.75 vs. 10:1,00	0.4433	0.5	-0.05667	0.05529	3	3	1.449	36
2:1,00 vs. 4:0.50	0.3	0.6	-0.3	0.05529	3	3	7.674	36
2:1,00 vs. 4:0.75	0.3	0.5733	-0.2733	0.05529	3	3	6.992	36
2:1,00 vs. 4:1,00	0.3	0.5	-0.2	0.05529	3	3	5.116	36
2:1,00 vs. 6:0.50	0.3	0.8	-0.5	0.05529	3	3	12.79	36
2:1,00 vs. 6:0.75	0.3	0.5733	-0.2733	0.05529	3	3	6.992	36
2:1,00 vs. 6:1,00	0.3	0.4667	-0.1667	0.05529	3	3	4.263	36
2:1,00 vs. 8:0.50	0.3	0.8	-0.5	0.05529	3	3	12.79	36
2:1,00 vs. 8:0.75	0.3	0.53	-0.23	0.05529	3	3	5.883	36
2:1,00 vs. 8:1,00	0.3	0.6	-0.3	0.05529	3	3	7.674	36
2:1,00 vs. 10:0.50	0.3	1	-0.7	0.05529	3	3	17.91	36
2:1,00 vs. 10:0.75	0.3	0.53	-0.23	0.05529	3	3	5.883	36

2:1,00 vs. 10:1,00	0.3	0.5	-0.2	0.05529	3	3	5.116	36
4:0.50 vs. 4:0.75	0.6	0.5733	0.02667	0.05529	3	3	0.6821	36
4:0.50 vs. 4:1,00	0.6	0.5	0.1	0.05529	3	3	2.558	36
4:0.50 vs. 6:0.50	0.6	0.8	-0.2	0.05529	3	3	5.116	36
4:0.50 vs. 6:0.75	0.6	0.5733	0.02667	0.05529	3	3	0.6821	36
4:0.50 vs. 6:1,00	0.6	0.4667	0.1333	0.05529	3	3	3.411	36
4:0.50 vs. 8:0.50	0.6	0.8	-0.2	0.05529	3	3	5.116	36
4:0.50 vs. 8:0.75	0.6	0.53	0.07	0.05529	3	3	1.791	36
4:0.50 vs. 8:1,00	0.6	0.6	0	0.05529	3	3	0	36
4:0.50 vs. 10:0.50	0.6	1	-0.4	0.05529	3	3	10.23	36
4:0.50 vs. 10:0.75	0.6	0.53	0.07	0.05529	3	3	1.791	36
4:0.50 vs. 10:1,00	0.6	0.5	0.1	0.05529	3	3	2.558	36
4:0.75 vs. 4:1,00	0.5733	0.5	0.07333	0.05529	3	3	1.876	36
4:0.75 vs. 6:0.50	0.5733	0.8	-0.2267	0.05529	3	3	5.798	36
4:0.75 vs. 6:0.75	0.5733	0.5733	0	0.05529	3	3	0	36
4:0.75 vs. 6:1,00	0.5733	0.4667	0.1067	0.05529	3	3	2.728	36
4:0.75 vs. 8:0.50	0.5733	0.8	-0.2267	0.05529	3	3	5.798	36
4:0.75 vs. 8:0.75	0.5733	0.53	0.04333	0.05529	3	3	1.108	36
4:0.75 vs. 8:1,00	0.5733	0.6	-0.02667	0.05529	3	3	0.6821	36
4:0.75 vs. 10:1,00	0.5733	0.5	0.07333	0.05529	3	3	1.876	36

4:1,00 vs. 6:0.50	0.5	0.8	-0.3	0.05529	3	3	7.674	36
4:1,00 vs. 6:0.75	0.5	0.5733	-0.07333	0.05529	3	3	1.876	36
4:1,00 vs. 6:1,00	0.5	0.4667	0.03333	0.05529	3	3	0.8526	36
4:1,00 vs. 8:0.50	0.5	0.8	-0.3	0.05529	3	3	7.674	36
4:1,00 vs. 8:0.75	0.5	0.53	-0.03	0.05529	3	3	0.7674	36
4:1,00 vs. 8:1,00	0.5	0.6	-0.1	0.05529	3	3	2.558	36
4:1,00 vs. 10:0.50	0.5	1	-0.5	0.05529	3	3	12.79	36
4:1,00 vs. 10:0.75	0.5	0.53	-0.03	0.05529	3	3	0.7674	36
4:1,00 vs. 10:1,00	0.5	0.5	0	0.05529	3	3	0	36
6:0.50 vs. 6:0.75	0.8	0.5733	0.2267	0.05529	3	3	5.798	36
6:0.50 vs. 6:1,00	0.8	0.4667	0.3333	0.05529	3	3	8.526	36
6:0.50 vs. 8:0.50	0.8	0.8	0	0.05529	3	3	0	36
6:0.50 vs. 8:0.75	0.8	0.53	0.27	0.05529	3	3	6.906	36
6:0.50 vs. 8:1,00	0.8	0.6	0.2	0.05529	3	3	5.116	36
6:0.50 vs. 10:0.50	0.8	1	-0.2	0.05529	3	3	5.116	36
6:0.50 vs. 10:0.75	0.8	0.53	0.27	0.05529	3	3	6.906	36
6:0.50 vs. 10:1,00	0.8	0.5	0.3	0.05529	3	3	7.674	36
6:0.75 vs. 6:1,00	0.5733	0.4667	0.1067	0.05529	3	3	2.728	36
6:0.75 vs. 8:0.50	0.5733	0.8	-0.2267	0.05529	3	3	5.798	36
6:0.75 vs. 8:0.75	0.5733	0.53	0.04333	0.05529	3	3	1.108	36

6:0.75 vs. 8:1,00	0.5733	0.6	-0.02667	0.05529	3	3	0.6821	36
6:0.75 vs. 10:0.50	0.5733	1	-0.4267	0.05529	3	3	10.91	36
6:0.75 vs. 10:0.75	0.5733	0.53	0.04333	0.05529	3	3	1.108	36
6:0.75 vs. 10:1,00	0.5733	0.5	0.07333	0.05529	3	3	1.876	36
6:1,00 vs. 8:0.50	0.4667	0.8	-0.3333	0.05529	3	3	8.526	36
6:1,00 vs. 8:0.75	0.4667	0.53	-0.06333	0.05529	3	3	1.62	36
6:1,00 vs. 8:1,00	0.4667	0.6	-0.1333	0.05529	3	3	3.411	36
6:1,00 vs. 10:0.50	0.4667	1	-0.5333	0.05529	3	3	13.64	36
6:1,00 vs. 10:0.75	0.4667	0.53	-0.06333	0.05529	3	3	1.62	36
6:1,00 vs. 10:1,00	0.4667	0.5	-0.03333	0.05529	3	3	0.8526	36
8:0.50 vs. 8:0.75	0.8	0.53	0.27	0.05529	3	3	6.906	36
8:0.50 vs. 8:1,00	0.8	0.6	0.2	0.05529	3	3	5.116	36
8:0.50 vs. 10:0.50	0.8	1	-0.2	0.05529	3	3	5.116	36
8:0.50 vs. 10:0.75	0.8	0.53	0.27	0.05529	3	3	6.906	36
8:0.50 vs. 10:1,00	0.8	0.5	0.3	0.05529	3	3	7.674	36
8:0.75 vs. 8:1,00	0.53	0.6	-0.07	0.05529	3	3	1.791	36
8:0.75 vs. 10:0.50	0.53	1	-0.47	0.05529	3	3	12.02	36
8:0.75 vs. 10:0.75	0.53	0.53	0	0.05529	3	3	0	36
8:0.75 vs. 10:1,00	0.53	0.5	0.03	0.05529	3	3	0.7674	36
8:1,00 vs. 10:0.50	0.6	1	-0.4	0.05529	3	3	10.23	36

8:1,00 vs. 10:0.75	0.6	0.53	0.07	0.05529	3	3	1.791	36
8:1,00 vs. 10:1,00	0.6	0.5	0.1	0.05529	3	3	2.558	36
10:0.50 vs. 10:0.75	1	0.53	0.47	0.05529	3	3	12.02	36
10:0.50 vs. 10:1,00	1	0.5	0.5	0.05529	3	3	12.79	36

Lampiran 4
Tabel Perlakuan (Tukey)

Number of families	1
Number of comparisons per family	66
Alpha	0.05

Tukey's mulAple comparisons test	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
Serbuk:0.50 vs. Serbuk:0.75	0	-0.1521 to 0.1521	No	ns	>0.9999
Serbuk:0.50 vs. Serbuk:1.00	0	-0.1521 to 0.1521	No	ns	>0.9999
Serbuk:0.50 vs. Serbuk + Ozon:0.50	-1	-1.152 to -0.8479	Yes	****	<0.0001
Serbuk:0.50 vs. Serbuk + Ozon:0.75	-0.7067	-0.8588 to -0.5546	Yes	****	<0.0001
Serbuk:0.50 vs. Serbuk + Ozon:1.00	-0.7	-0.8521 to -0.5479	Yes	****	<0.0001
Serbuk:0.50 vs. Serbuk + Oven:0.50	-0.8	-0.9521 to -0.6479	Yes	****	<0.0001
Serbuk:0.50 vs. Serbuk + Oven:0.75	-0.7067	-0.8588 to -0.5546	Yes	****	<0.0001
Serbuk:0.50 vs. Serbuk + Oven:1.00	-0.5	-0.6521 to -0.3479	Yes	****	<0.0001

Serbuk:0.50 vs. serbuk + ozon + oven :0.50	-0.8	-0.9521 to -0.6479	Yes	****	<0.0001	
Serbuk:0.50 vs. serbuk + ozon + oven :0.75	-0.5733	-0.7254 to -0.4212	Yes	****	<0.0001	
Serbuk:0.50 vs. serbuk + ozon + oven :1.00	-0.3667	-0.5188 to -0.2146	Yes	****	<0.0001	
Serbuk:0.75 vs. Serbuk:1.00	0	-0.1521 to 0.1521	No	ns	>0.9999	
Serbuk:0.75 vs. Serbuk + Ozon:0.50	-1	-1.152 to -0.8479	Yes	****	<0.0001	
Serbuk:0.75 vs. Serbuk + Ozon:0.75	-0.7067	-0.8588 to -0.5546	Yes	****	<0.0001	
Serbuk:0.75 vs. Serbuk + Ozon:1.00	-0.7	-0.8521 to -0.5479	Yes	****	<0.0001	
Serbuk:0.75 vs. Serbuk + Oven:0.50	-0.8	-0.9521 to -0.6479	Yes	****	<0.0001	
Serbuk:0.75 vs. Serbuk + Oven:0.75	-0.7067	-0.8588 to -0.5546	Yes	****	<0.0001	
Serbuk:0.75 vs. Serbuk + Oven:1.00	-0.5	-0.6521 to -0.3479	Yes	****	<0.0001	
Serbuk:0.75 vs. serbuk + ozon + oven :0.50	-0.8	-0.9521 to -0.6479	Yes	****	<0.0001	
Serbuk:0.75 vs. serbuk + ozon + oven :0.75	-0.5733	-0.7254 to -0.4212	Yes	****	<0.0001	
Serbuk:0.75 vs. serbuk + ozon + oven :1.00	-0.3667	-0.5188 to -0.2146	Yes	****	<0.0001	
Serbuk:1.00 vs. Serbuk + Ozon:0.50	-1	-1.152 to -0.8479	Yes	****	<0.0001	
Serbuk:1.00 vs. Serbuk + Ozon:0.75	-0.7067	-0.8588 to -0.5546	Yes	****	<0.0001	
Serbuk:1.00 vs. Serbuk + Ozon:1.00	-0.7	-0.8521 to -0.5479	Yes	****	<0.0001	
Serbuk:1.00 vs. Serbuk + Oven:0.50	-0.8	-0.9521 to -0.6479	Yes	****	<0.0001	
Serbuk:1.00 vs. Serbuk + Oven:0.75	-0.7067	-0.8588 to -0.5546	Yes	****	<0.0001	
Serbuk:1.00 vs. Serbuk + Oven:1.00	-0.5	-0.6521 to -0.3479	Yes	****	<0.0001	
Serbuk:1.00 vs. serbuk + ozon + oven :0.50	-0.8	-0.9521 to -0.6479	Yes	****	<0.0001	

Serbuk:1.00 vs. serbuk + ozon + oven :0.75	-0.5733	-0.7254 to -0.4212	Yes	****	<0.0001
Serbuk:1.00 vs. serbuk + ozon + oven :1.00	-0.3667	-0.5188 to -0.2146	Yes	****	<0.0001
Serbuk + Ozon:0.50 vs. Serbuk + Ozon:0.75	0.2933	0.1412 to 0.4454	Yes	****	<0.0001
Serbuk + Ozon:0.50 vs. Serbuk + Ozon:1.00	0.3	0.1479 to 0.4521	Yes	****	<0.0001
Serbuk + Ozon:0.50 vs. Serbuk + Oven:0.50	0.2	0.04789 to 0.3521	Yes	**	0.0037
Serbuk + Ozon:0.50 vs. Serbuk + Oven:0.75	0.2933	0.1412 to 0.4454	Yes	****	<0.0001
Serbuk + Ozon:0.50 vs. Serbuk + Oven:1.00	0.5	0.3479 to 0.6521	Yes	****	<0.0001
Serbuk + Ozon:0.50 vs. serbuk + ozon + oven :0.50	0.2	0.04789 to 0.3521	Yes	**	0.0037
Serbuk + Ozon:0.50 vs. serbuk + ozon + oven :0.75	0.4267	0.2746 to 0.5788	Yes	****	<0.0001
Serbuk + Ozon:0.50 vs. serbuk + ozon + oven :1.00	0.6333	0.4812 to 0.7854	Yes	****	<0.0001
Serbuk + Ozon:0.75 vs. Serbuk + Ozon:1.00	0.006667	-0.1454 to 0.1588	No	ns	>0.9999
Serbuk + Ozon:0.75 vs. Serbuk + Oven:0.50	-0.09333	-0.2454 to 0.05877	No	ns	0.5566
Serbuk + Ozon:0.75 vs. Serbuk + Oven:0.75	0	-0.1521 to 0.1521	No	ns	>0.9999
Serbuk + Ozon:0.75 vs. Serbuk + Oven:1.00	0.2067	0.05456 to 0.3588	Yes	**	0.0025
Serbuk + Ozon:0.75 vs. serbuk + ozon + oven :0.50	-0.09333	-0.2454 to 0.05877	No	ns	0.5566
Serbuk + Ozon:0.75 vs. serbuk + ozon + oven :0.75	0.1333	-0.01877 to 0.2854	No	ns	0.1247
Serbuk + Ozon:0.75 vs. serbuk + ozon + oven :1.00	0.34	0.1879 to 0.4921	Yes	****	<0.0001
Serbuk + Ozon:1.00 vs. Serbuk + Oven:0.50	-0.1	-0.2521 to 0.05211	No	ns	0.4594

Serbuk + Ozon:1.00 vs. Serbuk + Oven:0.75	-0.006667	-0.1588 to 0.1454	No	ns	>0.9999
Serbuk + Ozon:1.00 vs. Serbuk + Oven:1.00	0.2	0.04789 to 0.3521	Yes	**	0.0037
Serbuk + Ozon:1.00 vs. serbuk + ozon + oven :0.50	-0.1	-0.2521 to 0.05211	No	ns	0.4594
Serbuk + Ozon:1.00 vs. serbuk + ozon + oven :0.75	0.1267	-0.02544 to 0.2788	No	ns	0.1682
Serbuk + Ozon:1.00 vs. serbuk + ozon + oven :1.00	0.3333	0.1812 to 0.4854	Yes	****	<0.0001
Serbuk + Oven:0.50 vs. Serbuk + Oven:0.75	0.09333	-0.05877 to 0.2454	No	ns	0.5566
Serbuk + Oven:0.50 vs. Serbuk + Oven:1.00	0.3	0.1479 to 0.4521	Yes	****	<0.0001
Serbuk + Oven:0.50 vs. serbuk + ozon + oven :0.50	0	-0.1521 to 0.1521	No	ns	>0.9999
Serbuk + Oven:0.50 vs. serbuk + ozon + oven :0.75	0.2267	0.07456 to 0.3788	Yes	***	0.0008
Serbuk + Oven:0.50 vs. serbuk + ozon + oven :1.00	0.4333	0.2812 to 0.5854	Yes	****	<0.0001
Serbuk + Oven:0.75 vs. Serbuk + Oven:1.00	0.2067	0.05456 to 0.3588	Yes	**	0.0025
Serbuk + Oven:0.75 vs. serbuk + ozon + oven :0.50	-0.09333	-0.2454 to 0.05877	No	ns	0.5566
Serbuk + Oven:0.75 vs. serbuk + ozon + oven :0.75	0.1333	-0.01877 to 0.2854	No	ns	0.1247
Serbuk + Oven:0.75 vs. serbuk + ozon + oven :1.00	0.34	0.1879 to 0.4921	Yes	****	<0.0001
Serbuk + Oven:1.00 vs. serbuk + ozon + oven :0.50	-0.3	-0.4521 to -0.1479	Yes	****	<0.0001
Serbuk + Oven:1.00 vs. serbuk + ozon + oven :0.75	-0.07333	-0.2254 to 0.07877	No	ns	0.8337

Serbuk + Oven:1.00 vs. serbuk + ozon + oven :1.00	0.1333	-0.01877 to 0.2854	No	ns	0.1247	
serbuk + ozon + oven :0.50 vs. serbuk + ozon + oven :0.75	0.2267	0.07456 to 0.3788	Yes	***	0.0008	
serbuk + ozon + oven :0.50 vs. serbuk + ozon + oven :1.00	0.4333	0.2812 to 0.5854	Yes	****	<0.0001	
serbuk + ozon + oven :0.75 vs. serbuk + ozon + oven :1.00	0.2067	0.05456 to 0.3588	Yes	**	0.0025	
Test details	Mean 1	Mean 2	Mean Diff.	SE of diff.	N1	N 2
Serbuk:0.50 vs. Serbuk:0.75	0	0	0	0.04219	3	3
Serbuk:0.50 vs. Serbuk:1.00	0	0	0	0.04219	3	3
Serbuk:0.50 vs. Serbuk + Ozon:0.50	0	1	-1	0.04219	3	3
Serbuk:0.50 vs. Serbuk + Ozon:0.75	0	0.7067	-0.7067	0.04219	3	3
Serbuk:0.50 vs. Serbuk + Ozon:1.00	0	0.7	-0.7	0.04219	3	3
Serbuk:0.50 vs. Serbuk + Oven:0.50	0	0.8	-0.8	0.04219	3	3
Serbuk:0.50 vs. Serbuk + Oven:0.75	0	0.7067	-0.7067	0.04219	3	3
Serbuk:0.50 vs. Serbuk + Oven:1.00	0	0.5	-0.5	0.04219	3	3
Serbuk:0.50 vs. serbuk + ozon + oven :0.50	0	0.8	-0.8	0.04219	3	3
Serbuk:0.50 vs. serbuk + ozon + oven :0.75	0	0.5733	-0.5733	0.04219	3	3
Serbuk:0.50 vs. serbuk + ozon + oven :1.00	0	0.3667	-0.3667	0.04219	3	3
Serbuk:0.75 vs. Serbuk:1.00	0	0	0	0.04219	3	3

Serbuk:0.75 vs. Serbuk + Ozon:0.50	0	1	-1	0.04219	3	3
Serbuk:0.75 vs. Serbuk + Ozon:0.75	0	0.7067	-0.7067	0.04219	3	3
Serbuk:0.75 vs. Serbuk + Ozon:1.00	0	0.7	-0.7	0.04219	3	3
Serbuk:0.75 vs. Serbuk + Oven:0.50	0	0.8	-0.8	0.04219	3	3
Serbuk:0.75 vs. Serbuk + Oven:0.75	0	0.7067	-0.7067	0.04219	3	3
Serbuk:0.75 vs. Serbuk + Oven:1.00	0	0.5	-0.5	0.04219	3	3
Serbuk:0.75 vs. serbuk + ozon + oven :0.50	0	0.8	-0.8	0.04219	3	3
Serbuk:0.75 vs. serbuk + ozon + oven :0.75	0	0.5733	-0.5733	0.04219	3	3
Serbuk:0.75 vs. serbuk + ozon + oven :1.00	0	0.3667	-0.3667	0.04219	3	3
Serbuk:1.00 vs. Serbuk + Ozon:0.50	0	1	-1	0.04219	3	3
Serbuk:1.00 vs. Serbuk + Ozon:0.75	0	0.7067	-0.7067	0.04219	3	3
Serbuk:1.00 vs. Serbuk + Ozon:1.00	0	0.7	-0.7	0.04219	3	3
Serbuk:1.00 vs. Serbuk + Oven:0.50	0	0.8	-0.8	0.04219	3	3
Serbuk:1.00 vs. Serbuk + Oven:0.75	0	0.7067	-0.7067	0.04219	3	3
Serbuk:1.00 vs. Serbuk + Oven:1.00	0	0.5	-0.5	0.04219	3	3
Serbuk:1.00 vs. serbuk + ozon + oven :0.50	0	0.8	-0.8	0.04219	3	3
Serbuk:1.00 vs. serbuk + ozon + oven :0.75	0	0.5733	-0.5733	0.04219	3	3
Serbuk:1.00 vs. serbuk + ozon + oven :1.00	0	0.3667	-0.3667	0.04219	3	3
Serbuk + Ozon:0.50 vs. Serbuk + Ozon:0.75	1	0.7067	0.2933	0.04219	3	3
Serbuk + Ozon:0.50 vs. Serbuk + Ozon:1.00	1	0.7	0.3	0.04219	3	3

Serbuk + Ozon:0.50 vs. Serbuk + Oven:0.50	1	0.8	0.2	0.04219	3	3
Serbuk + Ozon:0.50 vs. Serbuk + Oven:0.75	1	0.7067	0.2933	0.04219	3	3
Serbuk + Ozon:0.50 vs. Serbuk + Oven:1.00	1	0.5	0.5	0.04219	3	3
Serbuk + Ozon:0.50 vs. serbuk + ozon + oven :0.50	1	0.8	0.2	0.04219	3	3
Serbuk + Ozon:0.50 vs. serbuk + ozon + oven :0.75	1	0.5733	0.4267	0.04219	3	3
Serbuk + Ozon:0.50 vs. serbuk + ozon + oven :1.00	1	0.3667	0.6333	0.04219	3	3
Serbuk + Ozon:0.75 vs. Serbuk + Ozon:1.00	0.7067	0.7	0.006667	0.04219	3	3
Serbuk + Ozon:0.75 vs. Serbuk + Oven:0.50	0.7067	0.8	-0.09333	0.04219	3	3
Serbuk + Ozon:0.75 vs. Serbuk + Oven:0.75	0.7067	0.7067	0	0.04219	3	3
Serbuk + Ozon:0.75 vs. Serbuk + Oven:1.00	0.7067	0.5	0.2067	0.04219	3	3
Serbuk + Ozon:0.75 vs. serbuk + ozon + oven :0.50	0.7067	0.8	-0.09333	0.04219	3	3
Serbuk + Ozon:0.75 vs. serbuk + ozon + oven :0.75	0.7067	0.5733	0.1333	0.04219	3	3
Serbuk + Ozon:0.75 vs. serbuk + ozon + oven :1.00	0.7067	0.3667	0.34	0.04219	3	3
Serbuk + Ozon:1.00 vs. Serbuk + Oven:0.50	0.7	0.8	-0.1	0.04219	3	3
Serbuk + Ozon:1.00 vs. Serbuk + Oven:0.75	0.7	0.7067	-0.00667	0.04219	3	3
Serbuk + Ozon:1.00 vs. Serbuk + Oven:1.00	0.7	0.5	0.2	0.04219	3	3
Serbuk + Ozon:1.00 vs. serbuk + ozon + oven :0.50	0.7	0.8	-0.1	0.04219	3	3

Serbuk + Ozon:1.00 vs. serbuk + ozon + oven :0.75	0.7	0.5733	0.1267	0.04219	3	3
Serbuk + Ozon:1.00 vs. serbuk + ozon + oven :1.00	0.7	0.3667	0.3333	0.04219	3	3
Serbuk + Oven:0.50 vs. Serbuk + Oven:0.75	0.8	0.7067	0.09333	0.04219	3	3
Serbuk + Oven:0.50 vs. Serbuk + Oven:1.00	0.8	0.5	0.3	0.04219	3	3
Serbuk + Oven:0.50 vs. serbuk + ozon + oven :0.50	0.8	0.8	0	0.04219	3	3
Serbuk + Oven:0.50 vs. serbuk + ozon + oven :0.75	0.8	0.5733	0.2267	0.04219	3	3
Serbuk + Oven:0.50 vs. serbuk + ozon + oven :1.00	0.8	0.3667	0.4333	0.04219	3	3
Serbuk + Oven:0.75 vs. Serbuk + Oven:1.00	0.7067	0.5	0.2067	0.04219	3	3
Serbuk + Oven:0.75 vs. serbuk + ozon + oven :0.50	0.7067	0.8	-0.09333	0.04219	3	3
Serbuk + Oven:0.75 vs. serbuk + ozon + oven :0.75	0.7067	0.5733	0.1333	0.04219	3	3
Serbuk + Oven:0.75 vs. serbuk + ozon + oven :1.00	0.7067	0.3667	0.34	0.04219	3	3
Serbuk + Oven:1.00 vs. serbuk + ozon + oven :0.50	0.5	0.8	-0.3	0.04219	3	3
Serbuk + Oven:1.00 vs. serbuk + ozon + oven :0.75	0.5	0.5733	-0.07333	0.04219	3	3
Serbuk + Oven:1.00 vs. serbuk + ozon + oven :1.00	0.5	0.3667	0.1333	0.04219	3	3
serbuk + ozon + oven :0.50 vs. serbuk + ozon + oven :0.75	0.8	0.5733	0.2267	0.04219	3	3

serbuk + ozon + oven :0.50 vs. serbuk + ozon + oven :1.00	0.8	0.3667	0.4333	0.04219	3	3
serbuk + ozon + oven :0.75 vs. serbuk + ozon + oven :1.00	0.5733	0.3667	0.2067	0.04219	3	3

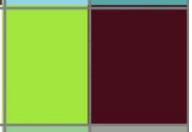
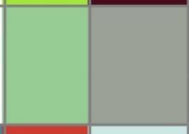
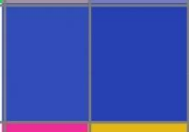
Lampiran 5 Tabel Analisis Biomassa Sel

Table Analyzed	Data 4				
Two-way ANOVA	Ordinary				
Alpha	0.05				
Source of VariaAon	% of total variaAon	P value	P value summary	Significant?	
InteracAon	20.21	<0.0001	****	Yes	
Row Factor	2.449	0.1946	ns	No	
Column Factor	66.08	<0.0001	****	Yes	
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
InteracAon	0.7656	10	0.07656	F (10, 36) = 6.459	P<0.0001
Row Factor	0.09278	5	0.01856	F (5, 36) = 1.566	P=0.1946
Column Factor	2.503	2	1.252	F (2, 36) = 105.6	P<0.0001
Residual	0.4267	36	0.01185		
Spearman's test for heteroscedasAcity					
Rs of predicted Y vs. | residual|	0.3233				
P value (one tailed)	0.0085				
Passed (P > 0.05)?	No				
Normality of Residuals					

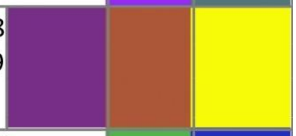
Test name	StaAsAcs	P value	Passed normality test (alpha=0.05)?	P value summary
Anderson-Darling (A2*)	1.345	0.0016	No	**
D'AgosAno-Pearson omnibus (K2)	8.217	0.0164	No	*
Shapiro-Wilk (W)	0.9378	0.0075	No	**
Kolmogorov-Smirnov (distance)	0.2037	<0.0001	No	****
Data summary				
Number of columns (Column Factor)	3			
Number of rows (Row Factor)	6			
Number of values	54			

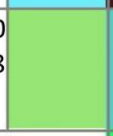
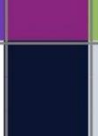
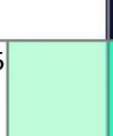
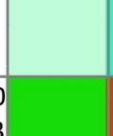
Lampiran 6 Biomassa (Tukey)

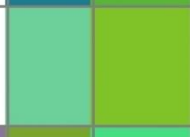
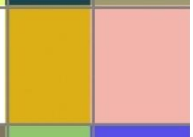
Compare cell means regardless of rows and columns								
Number of families	1							
Number of comparisons per family	153							
Alpha	0.05							
Tukey's mulAple comparisons test	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value			
0:0.50 vs. 0:0.75	-0.7	-1.033 to -0.3666	Yes	****	<0.0001			

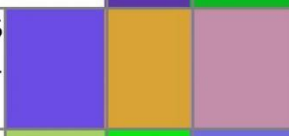
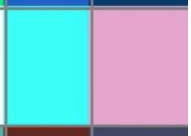
0:0.50 vs. 0:1.00	-0.4667	-0.8000 to -0.1333	Yes	***	0.0008	
0:0.50 vs. 2:0.50	-0.1	-0.4334 to 0.2334	No	ns	0.9994	
0:0.50 vs. 2:0.75	-0.5667	-0.9000 to -0.2333	Yes	****	<0.0001	
0:0.50 vs. 2:1.00	-0.5667	-0.9000 to -0.2333	Yes	****	<0.0001	
0:0.50 vs. 4:0.50	-0.1667	-0.5000 to 0.1667	No	ns	0.903	
0:0.50 vs. 4:0.75	-0.2667	-0.6000 to 0.06670	No	ns	0.2522	
0:0.50 vs. 4:1.00	-0.5333	-0.8667 to -0.2000	Yes	****	<0.0001	
0:0.50 vs. 6:0.50	-0.1667	-0.5000 to 0.1667	No	ns	0.903	
0:0.50 vs. 6:0.75	-0.4333	-0.7667 to -0.09997	Yes	**	0.0024	
						
0:0.50 vs. 6:1.00	-0.6	-0.9334 to -0.2666	Yes	****	<0.0001	
0:0.50 vs. 8:0.50	-0.06667	-0.4000 to 0.2667	No	ns	>0.9999	
0:0.50 vs. 8:0.75	-0.1333	-0.4667 to 0.2000	No	ns	0.9851	
0:0.50 vs. 8:1.00	-0.7	-1.033 to -0.3666	Yes	****	<0.0001	

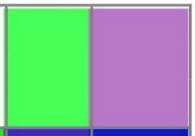
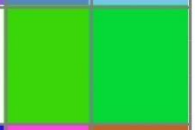
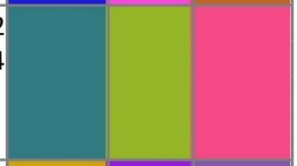
0:0.50 vs. 10:0.50	0.06667	-0.2667 to 0.4000	No	ns	>0.9999
0:0.50 vs. 10:0.75	-0.4333	-0.7667 to -0.09997	Yes	**	0.0024
0:0.50 vs. 10:1.00	-0.6667	-1.000 to -0.3333	Yes	****	<0.0001
0:0.75 vs. 0:1.00	0.2333	-0.1000 to 0.5667	No	ns	0.4623
0:0.75 vs. 2:0.50	0.6	0.2666 to 0.9334	Yes	****	<0.0001
0:0.75 vs. 2:0.75	0.1333	-0.2000 to 0.4667	No	ns	0.9851
0:0.75 vs. 2:1.00	0.1333	-0.2000 to 0.4667	No	ns	0.9851
0:0.75 vs. 4:0.50	0.5333	0.2000 to 0.8667	Yes	****	<0.0001
0:0.75 vs. 4:0.75	0.4333	0.09997 to 0.7667	Yes	**	0.0024
0:0.75 vs. 4:1.00	0.1667	-0.1667 to 0.5000	No	ns	0.903
0:0.75 vs. 6:0.50	0.5333	0.2000 to 0.8667	Yes	****	<0.0001
0:0.75 vs. 6:0.75	0.2667	-0.06670 to 0.6000	No	ns	0.2522
0:0.75 vs. 6:1.00	0.1	-0.2334 to 0.4334	No	ns	0.9994
0:0.75 vs. 8:0.50	0.6333	0.3000 to 0.9667	Yes	****	<0.0001

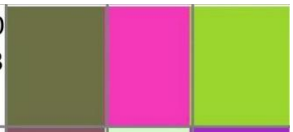
0:0.75 vs. 8:0.75	0.5667	0.2333 to 0.9000	Yes	****	<0.0001	
0:0.75 vs. 8:1.00	0	-0.3334 to 0.3334	No	ns	>0.9999	
0:0.75 vs. 10:0.50	0.7667	0.4333 to 1.100	Yes	****	<0.0001	
0:0.75 vs. 10:0.75	0.2667	-0.06670 to 0.6000	No	ns	0.2522	
0:0.75 vs. 10:1.00	0.03333	-0.3000 to 0.3667	No	ns	>0.9999	
0:1.00 vs. 2:0.50	0.3667	0.03330 to 0.7000	Yes	*	0.0193	
0:1.00 vs. 2:0.75	-0.1	-0.4334 to 0.2334	No	ns	0.9994	
0:1.00 vs. 2:1.00	-0.1	-0.4334 to 0.2334	No	ns	0.9994	
0:1.00 vs. 4:0.50	0.3	-0.03336 to 0.6334	No	ns	0.1189	
0:1.00 vs. 4:0.75	0.2	-0.1334 to 0.5334	No	ns	0.7101	
0:1.00 vs. 4:1.00	-0.06667	-0.4000 to 0.2667	No	ns	>0.9999	
0:1.00 vs. 6:0.50	0.3	-0.03336 to 0.6334	No	ns	0.1189	
0:1.00 vs. 6:0.75	0.03333	-0.3000 to 0.3667	No	ns	>0.9999	
0:1.00 vs. 6:1.00	-0.1333	-0.4667 to 0.2000	No	ns	0.9851	

0:1.00 vs. 8:0.50	0.4	0.06664 to 0.7334	Yes	**	0.007	
0:1.00 vs. 8:0.75	0.3333	-3.125e-005 to 0.6667	No	ns	0.05	
0:1.00 vs. 8:1.00	-0.2333	-0.5667 to 0.1000	No	ns	0.4623	
0:1.00 vs. 10:0.50	0.5333	0.2000 to 0.8667	Yes	****	<0.0001	
0:1.00 vs. 10:0.75	0.03333	-0.3000 to 0.3667	No	ns	>0.9999	
0:1.00 vs. 10:1.00	-0.2	-0.5334 to 0.1334	No	ns	0.7101	
2:0.50 vs. 2:0.75	-0.4667	-0.8000 to -0.1333	Yes	***	0.0008	
2:0.50 vs. 2:1.00	-0.4667	-0.8000 to -0.1333	Yes	***	0.0008	
2:0.50 vs. 4:0.50	-0.06667	-0.4000 to 0.2667	No	ns	>0.9999	
2:0.50 vs. 4:0.75	-0.1667	-0.5000 to 0.1667	No	ns	0.903	
2:0.50 vs. 4:1.00	-0.4333	-0.7667 to -0.09997	Yes	**	0.0024	
2:0.50 vs. 6:0.50	-0.06667	-0.4000 to 0.2667	No	ns	>0.9999	
2:0.50 vs. 6:0.75	-0.3333	-0.6667 to 3.125e-005	No	ns	0.05	
2:0.50 vs. 6:1.00	-0.5	-0.8334 to -0.1666	Yes	***	0.0003	

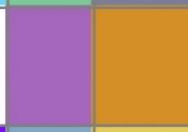
2:0.50 vs. 8:0.50	0.03333	-0.3000 to 0.3667	No	ns	>0.9999	
2:0.50 vs. 8:0.75	-0.03333	-0.3667 to 0.3000	No	ns	>0.9999	
2:0.50 vs. 8:1.00	-0.6	-0.9334 to -0.2666	Yes	****	<0.0001	
2:0.50 vs. 10:0.50	0.1667	-0.1667 to 0.5000	No	ns	0.903	
2:0.50 vs. 10:0.75	-0.3333	-0.6667 to 3.125e-005	No	ns	0.05	
2:0.50 vs. 10:1.00	-0.5667	-0.9000 to -0.2333	Yes	****	<0.0001	
2:0.75 vs. 2:1.00	0	-0.3334 to 0.3334	No	ns	>0.9999	
2:0.75 vs. 4:0.50	0.4	0.06664 to 0.7334	Yes	**	0.007	
2:0.75 vs. 4:0.75	0.3	-0.03336 to 0.6334	No	ns	0.1189	
2:0.75 vs. 4:1.00	0.03333	-0.3000 to 0.3667	No	ns	>0.9999	
2:0.75 vs. 6:0.50	0.4	0.06664 to 0.7334	Yes	**	0.007	
2:0.75 vs. 6:0.75	0.1333	-0.2000 to 0.4667	No	ns	0.9851	
2:0.75 vs. 6:1.00	-0.03333	-0.3667 to 0.3000	No	ns	>0.9999	
2:0.75 vs. 8:0.50	0.5	0.1666 to 0.8334	Yes	***	0.0003	

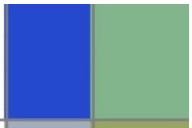
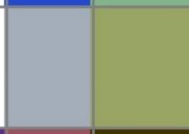
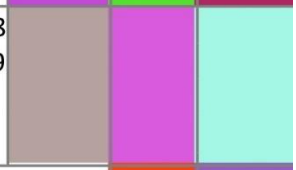
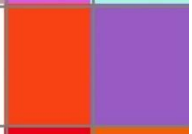
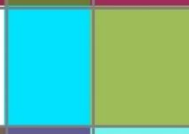
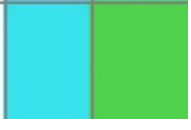
2:0.75 vs. 8:0.75	0.4333	0.09997 to 0.7667	Yes	**	0.0024	
2:0.75 vs. 8:1.00	-0.1333	-0.4667 to 0.2000	No	ns	0.9851	
2:0.75 vs. 10:0.50	0.6333	0.3000 to 0.9667	Yes	****	<0.0001	
2:0.75 vs. 10:0.75	0.1333	-0.2000 to 0.4667	No	ns	0.9851	
2:0.75 vs. 10:1.00	-0.1	-0.4334 to 0.2334	No	ns	0.9994	
2:1.00 vs. 4:0.50	0.4	0.06664 to 0.7334	Yes	**	0.007	
2:1.00 vs. 4:0.75	0.3	-0.03336 to 0.6334	No	ns	0.1189	
2:1.00 vs. 4:1.00	0.03333	-0.3000 to 0.3667	No	ns	>0.9999	
2:1.00 vs. 6:0.50	0.4	0.06664 to 0.7334	Yes	**	0.007	
2:1.00 vs. 6:0.75	0.1333	-0.2000 to 0.4667	No	ns	0.9851	
2:1.00 vs. 6:1.00	-0.03333	-0.3667 to 0.3000	No	ns	>0.9999	
2:1.00 vs. 8:0.50	0.5	0.1666 to 0.8334	Yes	***	0.0003	
2:1.00 vs. 8:0.75	0.4333	0.09997 to 0.7667	Yes	**	0.0024	
2:1.00 vs. 8:1.00	-0.1333	-0.4667 to 0.2000	No	ns	0.9851	

2:1.00 vs. 10:0.50	0.6333	0.3000 to 0.9667	Yes	****	<0.0001	
2:1.00 vs. 10:0.75	0.1333	-0.2000 to 0.4667	No	ns	0.9851	
2:1.00 vs. 10:1.00	-0.1	-0.4334 to 0.2334	No	ns	0.9994	
4:0.50 vs. 4:0.75	-0.1	-0.4334 to 0.2334	No	ns	0.9994	
4:0.50 vs. 4:1.00	-0.3667	-0.7000 to -0.03330	Yes	*	0.0193	
4:0.50 vs. 6:0.50	0	-0.3334 to 0.3334	No	ns	>0.9999	
4:0.50 vs. 6:0.75	-0.2667	-0.6000 to 0.06670	No	ns	0.2522	
4:0.50 vs. 6:1.00	-0.4333	-0.7667 to -0.09997	Yes	**	0.0024	
4:0.50 vs. 8:0.50	0.1	-0.2334 to 0.4334	No	ns	0.9994	
4:0.50 vs. 8:0.75	0.03333	-0.3000 to 0.3667	No	ns	>0.9999	
4:0.50 vs. 8:1.00	-0.5333	-0.8667 to -0.2000	Yes	****	<0.0001	
4:0.50 vs. 10:0.50	0.2333	-0.1000 to 0.5667	No	ns	0.4623	
4:0.50 vs. 10:0.75	-0.2667	-0.6000 to 0.06670	No	ns	0.2522	

4:0.50 vs. 10:1.00	-0.5	-0.8334 to -0.1666	Yes	***	0.0003	
4:0.75 vs. 4:1.00	-0.2667	-0.6000 to 0.06670	No	ns	0.2522	
4:0.75 vs. 6:0.50	0.1	-0.2334 to 0.4334	No	ns	0.9994	
4:0.75 vs. 6:0.75	-0.1667	-0.5000 to 0.1667	No	ns	0.903	
4:0.75 vs. 6:1.00	-0.3333	-0.6667 to 3.125e-005	No	ns	0.05	
4:0.75 vs. 8:0.50	0.2	-0.1334 to 0.5334	No	ns	0.7101	
4:0.75 vs. 8:0.75	0.1333	-0.2000 to 0.4667	No	ns	0.9851	
4:0.75 vs. 8:1.00	-0.4333	-0.7667 to -0.09997	Yes	**	0.0024	
4:0.75 vs. 10:0.50	0.3333	-3.125e-005 to 0.6667	No	ns	0.05	
4:0.75 vs. 10:0.75	-0.1667	-0.5000 to 0.1667	No	ns	0.903	
4:0.75 vs. 10:1.00	-0.4	-0.7334 to -0.06664	Yes	**	0.007	
4:1.00 vs. 6:0.50	0.3667	0.03330 to 0.7000	Yes	*	0.0193	
4:1.00 vs. 6:0.75	0.1	-0.2334 to 0.4334	No	ns	0.9994	

4:1.00 vs. 6:1.00	-0.06667	-0.4000 to 0.2667	No	ns	>0.9999	
4:1.00 vs. 8:0.50	0.4667	0.1333 to 0.8000	Yes	***	0.0008	
4:1.00 vs. 8:0.75	0.4	0.06664 to 0.7334	Yes	**	0.007	
4:1.00 vs. 8:1.00	-0.1667	-0.5000 to 0.1667	No	ns	0.903	
4:1.00 vs. 10:0.50	0.6	0.2666 to 0.9334	Yes	****	<0.0001	
4:1.00 vs. 10:0.75	0.1	-0.2334 to 0.4334	No	ns	0.9994	
4:1.00 vs. 10:1.00	-0.1333	-0.4667 to 0.2000	No	ns	0.9851	
6:0.50 vs. 6:0.75	-0.2667	-0.6000 to 0.06670	No	ns	0.2522	
6:0.50 vs. 6:1.00	-0.4333	-0.7667 to -0.09997	Yes	**	0.0024	
6:0.50 vs. 8:0.50	0.1	-0.2334 to 0.4334	No	ns	0.9994	
6:0.50 vs. 8:0.75	0.03333	-0.3000 to 0.3667	No	ns	>0.9999	
6:0.50 vs. 8:1.00	-0.5333	-0.8667 to -0.2000	Yes	****	<0.0001	
6:0.50 vs. 10:0.50	0.2333	-0.1000 to 0.5667	No	ns	0.4623	
6:0.50 vs. 10:0.75	-0.2667	-0.6000 to 0.06670	No	ns	0.2522	

6:0.50 vs. 10:1.00	-0.5	-0.8334 to -0.1666	Yes	***	0.0003	
6:0.75 vs. 6:1.00	-0.1667	-0.5000 to 0.1667	No	ns	0.903	
6:0.75 vs. 8:0.50	0.3667	0.03330 to 0.7000	Yes	*	0.0193	
6:0.75 vs. 8:0.75	0.3	-0.03336 to 0.6334	No	ns	0.1189	
6:0.75 vs. 8:1.00	-0.2667	-0.6000 to 0.06670	No	ns	0.2522	
6:0.75 vs. 10:0.50	0.5	0.1666 to 0.8334	Yes	***	0.0003	
6:0.75 vs. 10:0.75	0	-0.3334 to 0.3334	No	ns	>0.9999	
6:0.75 vs. 10:1.00	-0.2333	-0.5667 to 0.1000	No	ns	0.4623	
6:1.00 vs. 8:0.50	0.5333	0.2000 to 0.8667	Yes	****	<0.0001	
6:1.00 vs. 8:0.75	0.4667	0.1333 to 0.8000	Yes	***	0.0008	
6:1.00 vs. 8:1.00	-0.1	-0.4334 to 0.2334	No	ns	0.9994	
6:1.00 vs. 10:0.50	0.6667	0.3333 to 1.000	Yes	****	<0.0001	
6:1.00 vs. 10:0.75	0.1667	-0.1667 to 0.5000	No	ns	0.903	
6:1.00 vs. 10:1.00	-0.06667	-0.4000 to 0.2667	No	ns	>0.9999	

8:0.50 vs. 8:0.75	-0.06667	-0.4000 to 0.2667	No	ns	>0.9999	
8:0.50 vs. 8:1.00	-0.6333	-0.9667 to -0.3000	Yes	****	<0.0001	
8:0.50 vs. 10:0.50	0.1333	-0.2000 to 0.4667	No	ns	0.9851	
8:0.50 vs. 10:0.75	-0.3667	-0.7000 to -0.03330	Yes	*	0.0193	
8:0.50 vs. 10:1.00	-0.6	-0.9334 to -0.2666	Yes	****	<0.0001	
8:0.75 vs. 8:1.00	-0.5667	-0.9000 to -0.2333	Yes	****	<0.0001	
8:0.75 vs. 10:0.50	0.2	-0.1334 to 0.5334	No	ns	0.7101	
8:0.75 vs. 10:0.75	-0.3	-0.6334 to 0.03336	No	ns	0.1189	
8:0.75 vs. 10:1.00	-0.5333	-0.8667 to -0.2000	Yes	****	<0.0001	
8:1.00 vs. 10:0.50	0.7667	0.4333 to 1.100	Yes	****	<0.0001	
8:1.00 vs. 10:0.75	0.2667	-0.06670 to 0.6000	No	ns	0.2522	
8:1.00 vs. 10:1.00	0.03333	-0.3000 to 0.3667	No	ns	>0.9999	
10:0.50 vs. 10:0.75	-0.5	-0.8334 to -0.1666	Yes	***	0.0003	
10:0.50 vs. 10:1.00	-0.7333	-1.067 to -0.4000	Yes	****	<0.0001	

10:0.75 vs. 10:1.00	-0.2333	-0.5667 to 0.1000	No	ns	0.4623			
Test details	Mean 1	Mean 2	Mean Diff.	SE of diff.	N1	N2	q	DF
0:0.50 vs. 0:0.75	0.5333	1.233	-0.7	0.08889	3	3	11.14	36
0:0.50 vs. 0:1.00	0.5333	1	-0.4667	0.08889	3	3	7.425	36
0:0.50 vs. 2:0.50	0.5333	0.6333	-0.1	0.08889	3	3	1.591	36
0:0.50 vs. 2:0.75	0.5333	1.1	-0.5667	0.08889	3	3	9.016	36
0:0.50 vs. 2:1.00	0.5333	1.1	-0.5667	0.08889	3	3	9.016	36
0:0.50 vs. 4:0.50	0.5333	0.7	-0.1667	0.08889	3	3	2.652	36
0:0.50 vs. 4:0.75	0.5333	0.8	-0.2667	0.08889	3	3	4.243	36
0:0.50 vs. 4:1.00	0.5333	1.067	-0.5333	0.08889	3	3	8.485	36
0:0.50 vs. 6:0.50	0.5333	0.7	-0.1667	0.08889	3	3	2.652	36
0:0.50 vs. 6:0.75	0.5333	0.9667	-0.4333	0.08889	3	3	6.894	36
0:0.50 vs. 6:1.00	0.5333	1.133	-0.6	0.08889	3	3	9.546	36
0:0.50 vs. 8:0.50	0.5333	0.6	-0.06667	0.08889	3	3	1.061	36
0:0.50 vs. 8:0.75	0.5333	0.6667	-0.1333	0.08889	3	3	2.121	36
0:0.50 vs. 8:1.00	0.5333	1.233	-0.7	0.08889	3	3	11.14	36
0:0.50 vs. 10:0.50	0.5333	0.4667	0.06667	0.08889	3	3	1.061	36
0:0.50 vs. 10:0.75	0.5333	0.9667	-0.4333	0.08889	3	3	6.894	36

0:0.50 vs. 10:1.00	0.5333	1.2	-0.6667	0.08889	3	3	10.61	36
0:0.75 vs. 0:1.00	1.233	1	0.2333	0.08889	3	3	3.712	36
0:0.75 vs. 2:0.50	1.233	0.6333	0.6	0.08889	3	3	9.546	36
0:0.75 vs. 2:0.75	1.233	1.1	0.1333	0.08889	3	3	2.121	36
0:0.75 vs. 2:1.00	1.233	1.1	0.1333	0.08889	3	3	2.121	36
0:0.75 vs. 4:0.50	1.233	0.7	0.5333	0.08889	3	3	8.485	36
0:0.75 vs. 4:0.75	1.233	0.8	0.4333	0.08889	3	3	6.894	36
0:0.75 vs. 4:1.00	1.233	1.067	0.1667	0.08889	3	3	2.652	36
0:0.75 vs. 6:0.50	1.233	0.7	0.5333	0.08889	3	3	8.485	36
0:0.75 vs. 6:0.75	1.233	0.9667	0.2667	0.08889	3	3	4.243	36
0:0.75 vs. 6:1.00	1.233	1.133	0.1	0.08889	3	3	1.591	36
0:0.75 vs. 8:0.50	1.233	0.6	0.6333	0.08889	3	3	10.08	36
0:0.75 vs. 8:0.75	1.233	0.6667	0.5667	0.08889	3	3	9.016	36
0:0.75 vs. 8:1.00	1.233	1.233	0	0.08889	3	3	0	36
0:0.75 vs. 10:0.50	1.233	0.4667	0.7667	0.08889	3	3	12.2	36
0:0.75 vs. 10:0.75	1.233	0.9667	0.2667	0.08889	3	3	4.243	36
0:0.75 vs. 10:1.00	1.233	1.2	0.03333	0.08889	3	3	0.5303	36
0:1.00 vs. 2:0.50	1	0.6333	0.3667	0.08889	3	3	5.834	36
0:1.00 vs. 2:0.75	1	1.1	-0.1	0.08889	3	3	1.591	36
0:1.00 vs. 2:1.00	1	1.1	-0.1	0.08889	3	3	1.591	36

0:1.00 vs. 4:0.50	1	0.7	0.3	0.08889	3	3	4.773	36
0:1.00 vs. 4:0.75	1	0.8	0.2	0.08889	3	3	3.182	36
0:1.00 vs. 4:1.00	1	1.067	-0.06667	0.08889	3	3	1.061	36
0:1.00 vs. 6:0.50	1	0.7	0.3	0.08889	3	3	4.773	36
0:1.00 vs. 6:0.75	1	0.9667	0.03333	0.08889	3	3	0.5303	36
0:1.00 vs. 6:1.00	1	1.133	-0.1333	0.08889	3	3	2.121	36
0:1.00 vs. 8:0.50	1	0.6	0.4	0.08889	3	3	6.364	36
0:1.00 vs. 8:0.75	1	0.6667	0.3333	0.08889	3	3	5.303	36
0:1.00 vs. 8:1.00	1	1.233	-0.2333	0.08889	3	3	3.712	36
0:1.00 vs. 10:0.50	1	0.4667	0.5333	0.08889	3	3	8.485	36
0:1.00 vs. 10:0.75	1	0.9667	0.03333	0.08889	3	3	0.5303	36
0:1.00 vs. 10:1.00	1	1.2	-0.2	0.08889	3	3	3.182	36
2:0.50 vs. 2:0.75	0.6333	1.1	-0.4667	0.08889	3	3	7.425	36
2:0.50 vs. 2:1.00	0.6333	1.1	-0.4667	0.08889	3	3	7.425	36
2:0.50 vs. 4:0.50	0.6333	0.7	-0.06667	0.08889	3	3	1.061	36
2:0.50 vs. 4:0.75	0.6333	0.8	-0.1667	0.08889	3	3	2.652	36
2:0.50 vs. 4:1.00	0.6333	1.067	-0.4333	0.08889	3	3	6.894	36
2:0.50 vs. 6:0.50	0.6333	0.7	-0.06667	0.08889	3	3	1.061	36
2:0.50 vs. 6:0.75	0.6333	0.9667	-0.3333	0.08889	3	3	5.303	36
2:0.50 vs. 6:1.00	0.6333	1.133	-0.5	0.08889	3	3	7.955	36

2:0.50 vs. 8:0.50	0.6333	0.6	0.03333	0.08889	3	3	0.5303	36
2:0.50 vs. 8:0.75	0.6333	0.6667	-0.03333	0.08889	3	3	0.5303	36
2:0.50 vs. 8:1.00	0.6333	1.233	-0.6	0.08889	3	3	9.546	36
2:0.50 vs. 10:0.50	0.6333	0.4667	0.1667	0.08889	3	3	2.652	36
2:0.50 vs. 10:0.75	0.6333	0.9667	-0.3333	0.08889	3	3	5.303	36
2:0.50 vs. 10:1.00	0.6333	1.2	-0.5667	0.08889	3	3	9.016	36
2:0.75 vs. 2:1.00	1.1	1.1	0	0.08889	3	3	0	36
2:0.75 vs. 4:0.50	1.1	0.7	0.4	0.08889	3	3	6.364	36
2:0.75 vs. 4:0.75	1.1	0.8	0.3	0.08889	3	3	4.773	36
2:0.75 vs. 4:1.00	1.1	1.067	0.03333	0.08889	3	3	0.5303	36
2:0.75 vs. 6:0.50	1.1	0.7	0.4	0.08889	3	3	6.364	36
2:0.75 vs. 6:0.75	1.1	0.9667	0.1333	0.08889	3	3	2.121	36
2:0.75 vs. 6:1.00	1.1	1.133	-0.03333	0.08889	3	3	0.5303	36
2:0.75 vs. 8:0.50	1.1	0.6	0.5	0.08889	3	3	7.955	36
2:0.75 vs. 8:0.75	1.1	0.6667	0.4333	0.08889	3	3	6.894	36
2:0.75 vs. 8:1.00	1.1	1.233	-0.1333	0.08889	3	3	2.121	36
2:0.75 vs. 10:0.50	1.1	0.4667	0.6333	0.08889	3	3	10.08	36
2:0.75 vs. 10:0.75	1.1	0.9667	0.1333	0.08889	3	3	2.121	36
2:0.75 vs. 10:1.00	1.1	1.2	-0.1	0.08889	3	3	1.591	36
2:1.00 vs. 4:0.50	1.1	0.7	0.4	0.08889	3	3	6.364	36

2:1.00 vs. 4:0.75	1.1	0.8	0.3	0.08889	3	3	4.773	36
2:1.00 vs. 4:1.00	1.1	1.067	0.03333	0.08889	3	3	0.5303	36
2:1.00 vs. 6:0.50	1.1	0.7	0.4	0.08889	3	3	6.364	36
2:1.00 vs. 6:0.75	1.1	0.9667	0.1333	0.08889	3	3	2.121	36
2:1.00 vs. 6:1.00	1.1	1.133	-0.03333	0.08889	3	3	0.5303	36
2:1.00 vs. 8:0.50	1.1	0.6	0.5	0.08889	3	3	7.955	36
2:1.00 vs. 8:0.75	1.1	0.6667	0.4333	0.08889	3	3	6.894	36
2:1.00 vs. 8:1.00	1.1	1.233	-0.1333	0.08889	3	3	2.121	36
2:1.00 vs. 10:0.50	1.1	0.4667	0.6333	0.08889	3	3	10.08	36
2:1.00 vs. 10:0.75	1.1	0.9667	0.1333	0.08889	3	3	2.121	36
2:1.00 vs. 10:1.00	1.1	1.2	-0.1	0.08889	3	3	1.591	36
4:0.50 vs. 4:0.75	0.7	0.8	-0.1	0.08889	3	3	1.591	36
4:0.50 vs. 4:1.00	0.7	1.067	-0.3667	0.08889	3	3	5.834	36
4:0.50 vs. 6:0.50	0.7	0.7	0	0.08889	3	3	0	36
4:0.50 vs. 6:0.75	0.7	0.9667	-0.2667	0.08889	3	3	4.243	36
4:0.50 vs. 6:1.00	0.7	1.133	-0.4333	0.08889	3	3	6.894	36
4:0.50 vs. 8:0.50	0.7	0.6	0.1	0.08889	3	3	1.591	36
4:0.50 vs. 8:0.75	0.7	0.6667	0.03333	0.08889	3	3	0.5303	36
4:0.50 vs. 8:1.00	0.7	1.233	-0.5333	0.08889	3	3	8.485	36
4:0.50 vs. 10:0.50	0.7	0.4667	0.2333	0.08889	3	3	3.712	36

4:0.50 vs. 10:0.75	0.7	0.9667	-0.2667	0.08889	3	3	4.243	36
4:0.50 vs. 10:1.00	0.7	1.2	-0.5	0.08889	3	3	7.955	36
4:0.75 vs. 4:1.00	0.8	1.067	-0.2667	0.08889	3	3	4.243	36
4:0.75 vs. 6:0.50	0.8	0.7	0.1	0.08889	3	3	1.591	36
4:0.75 vs. 6:0.75	0.8	0.9667	-0.1667	0.08889	3	3	2.652	36
4:0.75 vs. 6:1.00	0.8	1.133	-0.3333	0.08889	3	3	5.303	36
4:0.75 vs. 8:0.50	0.8	0.6	0.2	0.08889	3	3	3.182	36
4:0.75 vs. 8:0.75	0.8	0.6667	0.1333	0.08889	3	3	2.121	36
4:0.75 vs. 8:1.00	0.8	1.233	-0.4333	0.08889	3	3	6.894	36
4:0.75 vs. 10:0.50	0.8	0.4667	0.3333	0.08889	3	3	5.303	36
4:0.75 vs. 10:0.75	0.8	0.9667	-0.1667	0.08889	3	3	2.652	36
4:0.75 vs. 10:1.00	0.8	1.2	-0.4	0.08889	3	3	6.364	36
4:1.00 vs. 6:0.50	1.067	0.7	0.3667	0.08889	3	3	5.834	36
4:1.00 vs. 6:0.75	1.067	0.9667	0.1	0.08889	3	3	1.591	36
4:1.00 vs. 6:1.00	1.067	1.133	-0.06667	0.08889	3	3	1.061	36
4:1.00 vs. 8:0.50	1.067	0.6	0.4667	0.08889	3	3	7.425	36
4:1.00 vs. 8:0.75	1.067	0.6667	0.4	0.08889	3	3	6.364	36
4:1.00 vs. 8:1.00	1.067	1.233	-0.1667	0.08889	3	3	2.652	36
4:1.00 vs. 10:0.50	1.067	0.4667	0.6	0.08889	3	3	9.546	36
4:1.00 vs. 10:0.75	1.067	0.9667	0.1	0.08889	3	3	1.591	36

4:1.00 vs. 10:1.00	1.067	1.2	-0.1333	0.08889	3	3	2.121	36
6:0.50 vs. 6:0.75	0.7	0.9667	-0.2667	0.08889	3	3	4.243	36
6:0.50 vs. 6:1.00	0.7	1.133	-0.4333	0.08889	3	3	6.894	36
6:0.50 vs. 8:0.50	0.7	0.6	0.1	0.08889	3	3	1.591	36
6:0.50 vs. 8:0.75	0.7	0.6667	0.03333	0.08889	3	3	0.5303	36
6:0.50 vs. 8:1.00	0.7	1.233	-0.5333	0.08889	3	3	8.485	36
6:0.50 vs. 10:0.50	0.7	0.4667	0.2333	0.08889	3	3	3.712	36
6:0.50 vs. 10:0.75	0.7	0.9667	-0.2667	0.08889	3	3	4.243	36
6:0.50 vs. 10:1.00	0.7	1.2	-0.5	0.08889	3	3	7.955	36
6:0.75 vs. 6:1.00	0.9667	1.133	-0.1667	0.08889	3	3	2.652	36
6:0.75 vs. 8:0.50	0.9667	0.6	0.3667	0.08889	3	3	5.834	36
6:0.75 vs. 8:0.75	0.9667	0.6667	0.3	0.08889	3	3	4.773	36
6:0.75 vs. 8:1.00	0.9667	1.233	-0.2667	0.08889	3	3	4.243	36
6:0.75 vs. 10:0.50	0.9667	0.4667	0.5	0.08889	3	3	7.955	36
6:0.75 vs. 10:0.75	0.9667	0.9667	0	0.08889	3	3	0	36
6:0.75 vs. 10:1.00	0.9667	1.2	-0.2333	0.08889	3	3	3.712	36
6:1.00 vs. 8:0.50	1.133	0.6	0.5333	0.08889	3	3	8.485	36
6:1.00 vs. 8:0.75	1.133	0.6667	0.4667	0.08889	3	3	7.425	36
6:1.00 vs. 8:1.00	1.133	1.233	-0.1	0.08889	3	3	1.591	36
6:1.00 vs. 10:0.50	1.133	0.4667	0.6667	0.08889	3	3	10.61	36

6:1.00 vs. 10:0.75	1.133	0.9667	0.1667	0.08889	3	3	2.652	36
6:1.00 vs. 10:1.00	1.133	1.2	-0.06667	0.08889	3	3	1.061	36
8:0.50 vs. 8:0.75	0.6	0.6667	-0.06667	0.08889	3	3	1.061	36
8:0.50 vs. 8:1.00	0.6	1.233	-0.6333	0.08889	3	3	10.08	36
8:0.50 vs. 10:0.50	0.6	0.4667	0.1333	0.08889	3	3	2.121	36
8:0.50 vs. 10:0.75	0.6	0.9667	-0.3667	0.08889	3	3	5.834	36
8:0.50 vs. 10:1.00	0.6	1.2	-0.6	0.08889	3	3	9.546	36
8:0.75 vs. 8:1.00	0.6667	1.233	-0.5667	0.08889	3	3	9.016	36
8:0.75 vs. 10:0.50	0.6667	0.4667	0.2	0.08889	3	3	3.182	36
8:0.75 vs. 10:0.75	0.6667	0.9667	-0.3	0.08889	3	3	4.773	36
8:0.75 vs. 10:1.00	0.6667	1.2	-0.5333	0.08889	3	3	8.485	36
8:1.00 vs. 10:0.50	1.233	0.4667	0.7667	0.08889	3	3	12.2	36
8:1.00 vs. 10:0.75	1.233	0.9667	0.2667	0.08889	3	3	4.243	36
8:1.00 vs. 10:1.00	1.233	1.2	0.03333	0.08889	3	3	0.5303	36
10:0.50 vs. 10:0.75	0.4667	0.9667	-0.5	0.08889	3	3	7.955	36
10:0.50 vs. 10:1.00	0.4667	1.2	-0.7333	0.08889	3	3	11.67	36
10:0.75 vs. 10:1.00	0.9667	1.2	-0.2333	0.08889	3	3	3.712	36

Lampiran 7 Tabel Uji ANOVA Pengaruh Konsentrasi Nutrisi Fermentasi dan Durasi Fermentasi Terhadap Kadar Etanol

Table Analyzed	Data 1
Two-way ANOVA	Ordinary
Alpha	0,05

Source of Variation	% of total variation	P value	P value summary	Significant?
Interaction	3,378	<0,0001	****	Yes
Row Factor	8,185	<0,0001	****	Yes
Column Factor	87,63	<0,0001	****	Yes

ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Interaction	0,04194	6	0,00699	F (6, 24) = 16,66	P<0,0001
Row Factor	0,1016	2	0,05081	F (2, 24) = 121,1	P<0,0001
Column Factor	1,088	3	0,3626	F (3, 24) = 864,5	P<0,0001
Residual	0,01007	24	0,0004194		

Data summary	
Number of columns (Column Factor)	4
Number of rows (Row Factor)	3
Number of values	36

Lampiran 8 Tabel Uji Tukey Pengaruh Konsentrasi Nutrisi Fermentasi dan Durasi Fermentasi Terhadap Kadar Etanol

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value
YE 0:0 vs. YE 0:24	-0,1	-0,1603 to -0,03971	Yes	***	0,0002
YE 0:0 vs. YE 0:48	-0,3033	-0,3636 to -0,2430	Yes	****	<0,0001
YE 0:0 vs. YE 0:72	-0,3233	-0,3836 to -0,2630	Yes	****	<0,0001
YE 0:0 vs. YE 1:0	-0,00333	-0,06363 to 0,05696	No	ns	>0,9999
YE 0:0 vs. YE 1:24	-0,17	-0,2303 to -0,1097	Yes	****	<0,0001
YE 0:0 vs. YE 1:48	-0,47	-0,5303 to -0,4097	Yes	****	<0,0001
YE 0:0 vs. YE 1:72	-0,4667	-0,5270 to -0,4064	Yes	****	<0,0001
YE 0:0 vs. YE 2:0	-0,01	-0,07029 to 0,05029	No	ns	>0,9999
YE 0:0 vs. YE 2:24	-0,2733	-0,3336 to -0,2130	Yes	****	<0,0001
YE 0:0 vs. YE 2:48	-0,4733	-0,5336 to -0,4130	Yes	****	<0,0001
YE 0:0 vs. YE 2:72	-0,4667	-0,5270 to -0,4064	Yes	****	<0,0001
YE 0:24 vs. YE 0:48	-0,2033	-0,2636 to -0,1430	Yes	****	<0,0001
YE 0:24 vs. YE 0:72	-0,2233	-0,2836 to -0,1630	Yes	****	<0,0001

YE 0:24 vs. YE 1:0	0,09667	0,03637 to 0,1570	Yes	***	0,0003
YE 0:24 vs. YE 1:24	-0,07	-0,1303 to -0,009706	Yes	*	0,0136
YE 0:24 vs. YE 1:48	-0,37	-0,4303 to -0,3097	Yes	****	<0,0001
YE 0:24 vs. YE 1:72	-0,3667	-0,4270 to -0,3064	Yes	****	<0,0001
YE 0:24 vs. YE 2:0	0,09	0,02971 to 0,1503	Yes	***	0,0008
YE 0:24 vs. YE 2:24	-0,1733	-0,2336 to -0,1130	Yes	****	<0,0001
YE 0:24 vs. YE 2:48	-0,3733	-0,4336 to -0,3130	Yes	****	<0,0001
YE 0:24 vs. YE 2:72	-0,3667	-0,4270 to -0,3064	Yes	****	<0,0001
YE 0:48 vs. YE 0:72	-0,02	-0,08029 to 0,04029	No	ns	0,9842
YE 0:48 vs. YE 1:0	0,3	0,2397 to 0,3603	Yes	****	<0,0001
YE 0:48 vs. YE 1:24	0,1333	0,07304 to 0,1936	Yes	****	<0,0001
YE 0:48 vs. YE 1:48	-0,1667	-0,2270 to -0,1064	Yes	****	<0,0001
YE 0:48 vs. YE 1:72	-0,1633	-0,2236 to -0,1030	Yes	****	<0,0001
YE 0:48 vs. YE 2:0	0,2933	0,2330 to 0,3536	Yes	****	<0,0001
YE 0:48 vs. YE 2:24	0,03	-0,03029 to 0,09029	No	ns	0,8061
YE 0:48 vs. YE 2:48	-0,17	-0,2303 to -0,1097	Yes	****	<0,0001
YE 0:48 vs. YE 2:72	-0,1633	-0,2236 to -0,1030	Yes	****	<0,0001
YE 0:72 vs. YE 1:0	0,32	0,2597 to 0,3803	Yes	****	<0,0001
YE 0:72 vs. YE 1:24	0,1533	0,09304 to 0,2136	Yes	****	<0,0001
YE 0:72 vs. YE 1:48	-0,1467	-0,2070 to -0,08637	Yes	****	<0,0001
YE 0:72 vs. YE 1:72	-0,1433	-0,2036 to -0,08304	Yes	****	<0,0001
YE 0:72 vs. YE 2:0	0,3133	0,2530 to 0,3736	Yes	****	<0,0001
YE 0:72 vs. YE 2:24	0,05	-0,01029 to 0,1103	No	ns	0,1721
YE 0:72 vs. YE 2:48	-0,15	-0,2103 to -0,08971	Yes	****	<0,0001
YE 0:72 vs. YE 2:72	-0,1433	-0,2036 to -0,08304	Yes	****	<0,0001
YE 1:0 vs. YE 1:24	-0,1667	-0,2270 to -0,1064	Yes	****	<0,0001
YE 1:0 vs. YE 1:48	-0,4667	-0,5270 to -0,4064	Yes	****	<0,0001
YE 1:0 vs. YE 1:72	-0,4633	-0,5236 to -0,4030	Yes	****	<0,0001
YE 1:0 vs. YE 2:0	-0,00667	-0,06696 to 0,05363	No	ns	>0,9999
YE 1:0 vs. YE 2:24	-0,27	-0,3303 to -0,2097	Yes	****	<0,0001
YE 1:0 vs. YE 2:48	-0,47	-0,5303 to -0,4097	Yes	****	<0,0001
YE 1:0 vs. YE 2:72	-0,4633	-0,5236 to -0,4030	Yes	****	<0,0001
YE 1:24 vs. YE 1:48	-0,3	-0,3603 to -0,2397	Yes	****	<0,0001
YE 1:24 vs. YE 1:72	-0,2967	-0,3570 to -0,2364	Yes	****	<0,0001
YE 1:24 vs. YE 2:0	0,16	0,09971 to 0,2203	Yes	****	<0,0001
YE 1:24 vs. YE 2:24	-0,1033	-0,1636 to -0,04304	Yes	***	0,0001
YE 1:24 vs. YE 2:48	-0,3033	-0,3636 to -0,2430	Yes	****	<0,0001
YE 1:24 vs. YE 2:72	-0,2967	-0,3570 to -0,2364	Yes	****	<0,0001
YE 1:48 vs. YE 1:72	0,00333	-0,05696 to 0,06363	No	ns	>0,9999
YE 1:48 vs. YE 2:0	0,46	0,3997 to 0,5203	Yes	****	<0,0001
YE 1:48 vs. YE 2:24	0,1967	0,1364 to 0,2570	Yes	****	<0,0001
YE 1:48 vs. YE 2:48	-0,00333	-0,06363 to 0,05696	No	ns	>0,9999
YE 1:48 vs. YE 2:72	0,00333	-0,05696 to 0,06363	No	ns	>0,9999
YE 1:72 vs. YE 2:0	0,4567	0,3964 to 0,5170	Yes	****	<0,0001
YE 1:72 vs. YE 2:24	0,1933	0,1330 to 0,2536	Yes	****	<0,0001
YE 1:72 vs. YE 2:48	-0,00667	-0,06696 to 0,05363	No	ns	>0,9999
YE 1:72 vs. YE 2:72	0	-0,06029 to 0,06029	No	ns	>0,9999
YE 2:0 vs. YE 2:24	-0,2633	-0,3236 to -0,2030	Yes	****	<0,0001
YE 2:0 vs. YE 2:48	-0,4633	-0,5236 to -0,4030	Yes	****	<0,0001
YE 2:0 vs. YE 2:72	-0,4567	-0,5170 to -0,3964	Yes	****	<0,0001
YE 2:24 vs. YE 2:48	-0,2	-0,2603 to -0,1397	Yes	****	<0,0001
YE 2:24 vs. YE 2:72	-0,1933	-0,2536 to -0,1330	Yes	****	<0,0001
YE 2:48 vs. YE 2:72	0,00667	-0,05363 to 0,06696	No	ns	>0,9999

Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	N1	N2	q	DF
YE 0:0 vs. YE 0:24	0	0,1	-0,1	0,02	3	3	8,457	24

YE 0:0 vs. YE 0:48	0	0,3033	-0,3	0,02	3	3	25,65	24
YE 0:0 vs. YE 0:72	0	0,3233	-0,32	0,02	3	3	27,34	24
YE 0:0 vs. YE 1:0	0	0,00333	-0	0,02	3	3	0,282	24
YE 0:0 vs. YE 1:24	0	0,17	-0,17	0,02	3	3	14,38	24
YE 0:0 vs. YE 1:48	0	0,47	-0,47	0,02	3	3	39,75	24
YE 0:0 vs. YE 1:72	0	0,4667	-0,47	0,02	3	3	39,47	24
YE 0:0 vs. YE 2:0	0	0,01	-0,01	0,02	3	3	0,846	24
YE 0:0 vs. YE 2:24	0	0,2733	-0,27	0,02	3	3	23,12	24
YE 0:0 vs. YE 2:48	0	0,4733	-0,47	0,02	3	3	40,03	24
YE 0:0 vs. YE 2:72	0	0,4667	-0,47	0,02	3	3	39,47	24
YE 0:24 vs. YE 0:48	0,1	0,3033	-0,2	0,02	3	3	17,2	24
YE 0:24 vs. YE 0:72	0,1	0,3233	-0,22	0,02	3	3	18,89	24
YE 0:24 vs. YE 1:0	0,1	0,00333	0,097	0,02	3	3	8,175	24
YE 0:24 vs. YE 1:24	0,1	0,17	-0,07	0,02	3	3	5,92	24
YE 0:24 vs. YE 1:48	0,1	0,47	-0,37	0,02	3	3	31,29	24
YE 0:24 vs. YE 1:72	0,1	0,4667	-0,37	0,02	3	3	31,01	24
YE 0:24 vs. YE 2:0	0,1	0,01	0,09	0,02	3	3	7,611	24
YE 0:24 vs. YE 2:24	0,1	0,2733	-0,17	0,02	3	3	14,66	24
YE 0:24 vs. YE 2:48	0,1	0,4733	-0,37	0,02	3	3	31,57	24
YE 0:24 vs. YE 2:72	0,1	0,4667	-0,37	0,02	3	3	31,01	24
YE 0:48 vs. YE 0:72	0,303	0,3233	-0,02	0,02	3	3	1,691	24
YE 0:48 vs. YE 1:0	0,303	0,00333	0,3	0,02	3	3	25,37	24
YE 0:48 vs. YE 1:24	0,303	0,17	0,133	0,02	3	3	11,28	24
YE 0:48 vs. YE 1:48	0,303	0,47	-0,17	0,02	3	3	14,1	24
YE 0:48 vs. YE 1:72	0,303	0,4667	-0,16	0,02	3	3	13,81	24
YE 0:48 vs. YE 2:0	0,303	0,01	0,293	0,02	3	3	24,81	24
YE 0:48 vs. YE 2:24	0,303	0,2733	0,03	0,02	3	3	2,537	24
YE 0:48 vs. YE 2:48	0,303	0,4733	-0,17	0,02	3	3	14,38	24
YE 0:48 vs. YE 2:72	0,303	0,4667	-0,16	0,02	3	3	13,81	24
YE 0:72 vs. YE 1:0	0,323	0,00333	0,32	0,02	3	3	27,06	24
YE 0:72 vs. YE 1:24	0,323	0,17	0,153	0,02	3	3	12,97	24
YE 0:72 vs. YE 1:48	0,323	0,47	-0,15	0,02	3	3	12,4	24
YE 0:72 vs. YE 1:72	0,323	0,4667	-0,14	0,02	3	3	12,12	24
YE 0:72 vs. YE 2:0	0,323	0,01	0,313	0,02	3	3	26,5	24
YE 0:72 vs. YE 2:24	0,323	0,2733	0,05	0,02	3	3	4,229	24
YE 0:72 vs. YE 2:48	0,323	0,4733	-0,15	0,02	3	3	12,69	24
YE 0:72 vs. YE 2:72	0,323	0,4667	-0,14	0,02	3	3	12,12	24
YE 1:0 vs. YE 1:24	0,003	0,17	-0,17	0,02	3	3	14,1	24
YE 1:0 vs. YE 1:48	0,003	0,47	-0,47	0,02	3	3	39,47	24
YE 1:0 vs. YE 1:72	0,003	0,4667	-0,46	0,02	3	3	39,18	24
YE 1:0 vs. YE 2:0	0,003	0,01	-0,01	0,02	3	3	0,564	24
YE 1:0 vs. YE 2:24	0,003	0,2733	-0,27	0,02	3	3	22,83	24

YE 1:0 vs. YE 2:48	0,003	0,4733	-0,47	0,02	3	3	39,75	24
YE 1:0 vs. YE 2:72	0,003	0,4667	-0,46	0,02	3	3	39,18	24
YE 1:24 vs. YE 1:48	0,17	0,47	-0,3	0,02	3	3	25,37	24
YE 1:24 vs. YE 1:72	0,17	0,4667	-0,3	0,02	3	3	25,09	24
YE 1:24 vs. YE 2:0	0,17	0,01	0,16	0,02	3	3	13,53	24
YE 1:24 vs. YE 2:24	0,17	0,2733	-0,1	0,02	3	3	8,739	24
YE 1:24 vs. YE 2:48	0,17	0,4733	-0,3	0,02	3	3	25,65	24
YE 1:24 vs. YE 2:72	0,17	0,4667	-0,3	0,02	3	3	25,09	24
YE 1:48 vs. YE 1:72	0,47	0,4667	0,003	0,02	3	3	0,282	24
YE 1:48 vs. YE 2:0	0,47	0,01	0,46	0,02	3	3	38,9	24
YE 1:48 vs. YE 2:24	0,47	0,2733	0,197	0,02	3	3	16,63	24
YE 1:48 vs. YE 2:48	0,47	0,4733	-0	0,02	3	3	0,282	24
YE 1:48 vs. YE 2:72	0,47	0,4667	0,003	0,02	3	3	0,282	24
YE 1:72 vs. YE 2:0	0,467	0,01	0,457	0,02	3	3	38,62	24
YE 1:72 vs. YE 2:24	0,467	0,2733	0,193	0,02	3	3	16,35	24
YE 1:72 vs. YE 2:48	0,467	0,4733	-0,01	0,02	3	3	0,564	24
YE 1:72 vs. YE 2:72	0,467	0,4667	0	0,02	3	3	0	24
YE 2:0 vs. YE 2:24	0,01	0,2733	-0,26	0,02	3	3	22,27	24
YE 2:0 vs. YE 2:48	0,01	0,4733	-0,46	0,02	3	3	39,18	24
YE 2:0 vs. YE 2:72	0,01	0,4667	-0,46	0,02	3	3	38,62	24
YE 2:24 vs. YE 2:48	0,273	0,4733	-0,2	0,02	3	3	16,91	24
YE 2:24 vs. YE 2:72	0,273	0,4667	-0,19	0,02	3	3	16,35	24
YE 2:48 vs. YE 2:72	0,473	0,4667	0,007	0,02	3	3	0,564	24