	E. Aues		Date / 10/2023	72
A TO THE PARTY OF	ab Partner		ocker/	Section No. 203
So, "An Experi Chem Ed. 6 Use Greney in absorption spectronotomition, warm to alle lingth To alle brated. We "A / To	mater to 19.333 C. 8 20 pectro de instrumento de la sulto contesta de la sulto	hinking of 8 1992) metor to de solutions. ent for 20 n n to adje that 1/2 full OABS/1997	cientifically atomined ninutes - with your 1730	the waveley the blank solution ton
	Date	Witness/TA		Date
	What So, Warm of all brated. When the strength of the call brated. Call brated.	Solvatocho Pairiner Dyes "In Experimenten to Chem Ed 69:333 Co. Use Greneys 200 pectro um absorption of the instrum alle ling the Instrum alle ling the Instrument." The upse the coverthe interval to continue the coverthe continue the coverthe collibrated. " Callibrated." Let "A/T/C" Button to the experiment.	Solvatoch romatic Dye "An Experimenten thinking of & Chem Ed 69.333 (1992) Use Geneys 20 pectrometor to de an absorption of the solutions. Spectronoformetor, warm the instrument for 20 m are lingth Pand & button to adjee nt. up the covettle that 1/2 full intront. Press the ABS 1.09; Callibrated. Use "A/T/C" Button to selleto for the experiment.	Solvatoch romatic Dyes "An Experimenten thinking of Scientifially Chem Ed. 69.333 (1992) Use Geneys 20spectrome to to determined an absorption of the solutions. Frection to form the instrument for 20 minutes— are ling the Covertle that 1/2 full with your intront. Press the "OABS 1997. TBut Callibrated." When "A/T/C" Button to selleted the proplet the experiment.

BEAUTIFUL TO THE PARTY OF THE P	periment/Subject	Date	
Name	Lab Partner	Locker/ Desk No.	Course & Section No.
Taking on	Absorbare reading		
O Obtai	in 5 cualto each	containing merocyan	ic disolad
D Obono	The color of each s		
polarity of e			1
3) Use the	11-Visspectiginationeter	to domind wall	lught of Max
. /	ch Solution: 400 mm to		
	the absorbance of ea		
6) 140000 A	he wallelengh by 2	5 mm and repeat	ahob rading
g Contine unit it 9	reach 700 nm.	25 mm and Fo	the the reading

Exp. No. Experiment/Subject Course & Section No Locker! Name Lab Partner Desk No Table Oboneurd color and policinals Rolation Polesto Color absorbed Solvent Obsorred Color Methonal CH3OH Yellow Purple 1-propanol dankpink
CH3CH2CH2CH Magnes green 2 proparol likely red CH3CHOHEE13 syphone Aleton toib (H3(+) people praye purpl Acetona CH3(0H3 little yellow Water Mayellow puzzle//

	experiment/Subject			Date		
Name		Lab Partner	Richard Yoder	Locker/ Desk No.	Course	No.
350 2.	Matham CH30t 366 1.376	1 1-7 CB	0800000 2	proparo/ CH3CH6 ACH3	Dollanik (4)	ate determined the Abstracts
425 0. 425 0. 430 0. 525 -0.0 525 -0.0 525 -0.0	98 0.00 00 00 00 00 00 00 00 00 00 00 00 0	0034	1.789	1941 2760 3-240 3-250 2751 20-250 0-00	0.220	0-434 0-934 1-397
	52.875	Date	Witness/TA	NO TO		ate 0.00

Course & Name Locker/ Section No. Lab Partner Desk No. Table 3 Relative solvent polonits Er(K)/mol) /mas Solvent Methanol CH 30 H. 3400 299-26 1 pooparol 228-01 725 CH3CH2(4)6H 3066 228-01 2 proparol CH3CHOHCH3 BASS 208-18 1 ctoretsib CH3(N 575 208:18 Acting (4300 CH3 575 319.24 1 1 to

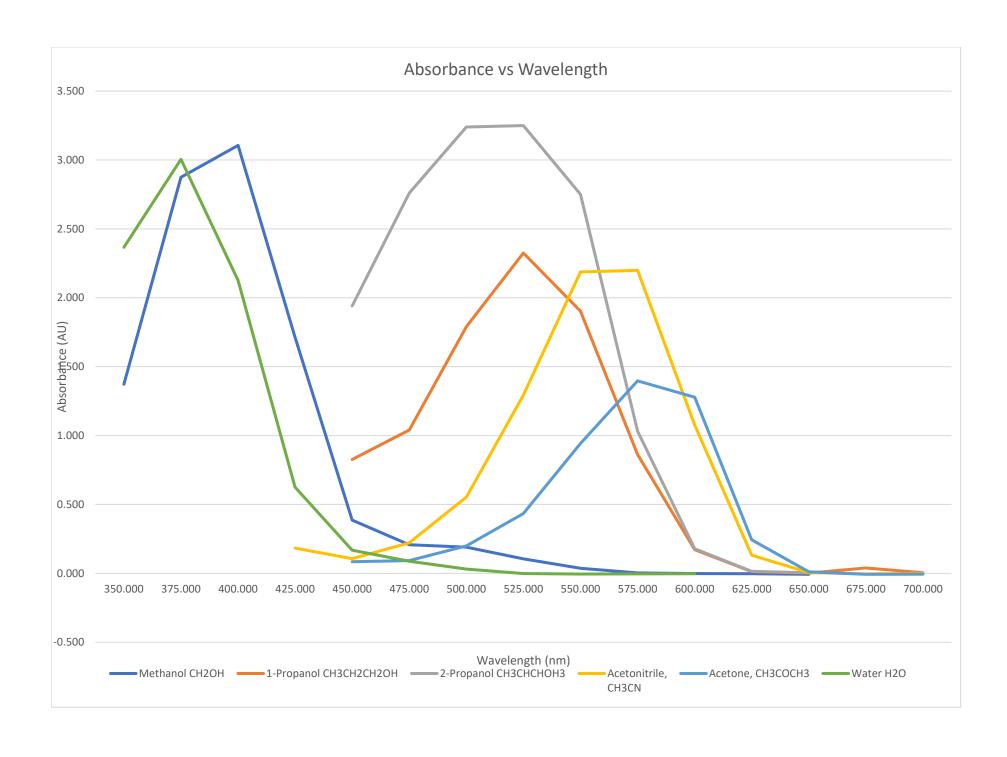
		CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO	100	Date
	Date	Witness/TA	1 111	Date
Signature			10	
		THE REAL PROPERTY AND PERSONS ASSESSED.		

Observation the proposed lands are only solution that deep give negtive number when its near 700 wavelength. most of Solution Rate regime number when its near too wavelength. Solution Rate regime number when its near too wavelength. Solution that absorbed people holdesn't reflect any wavelength below 700 6022003 (6262004) (300 x10°) 1000 (600 x10°) (300 x10°) 535 x 10° - 22801	P. No.	Experiment/Subject		Date	
the proposed lands one only solution that does give negtive number when its near 700 wavelength. most of Solution Rave regimes number when its near to 700 wavelength. Solution the absorbed pumple losses treflect any wavelength below 700 60,2000 (600 x10-3) (620 x10-3) (300 x10-5) 1000	ame	Lab Pr	artner		
600 21023) (626 X1034) (300 X108) (600 X 1023) (626 X1034) (300 X108)	ine negting to food w	e proporol la ive number wi southingth.	hen its near regtice. Met abso	700 wateling Y number when	the news
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	602	x10 ²³ /626 x 0 ³⁴ /800)		22801	

Exp. No.	Experiment/Subject	Date
Name	Lab Partner	Locker/ Desk No.
	6035 1033 (63 × 10-34) (30×108)	
	575 × 10-9	
	6.003 × 103/6 33×1034/13 toxid	
	33× ×/0	
	100	

.

Waveleng						
th,						
	A la a sula a s			ملفانين مرمانفيرام	مالم المالم	
nm	Absorbai	nce(wave len		l	the following	g solvent
		1-	2-			
		Propanol	Propanol	Acetonitril	Acetone,	
	Methanol	CH3CH2C	CH3CHCH	e,	CH3COCH	Water
	CH2OH	H2OH	OH3	CH3CN	3	H2O
350.000	1.372					2.366
375.000	2.875					3.005
400.000	3.106					2.126
425.000	1.714			0.183		0.626
450.000	0.386	0.826	1.941	0.107	0.084	0.168
475.000	0.207	1.040	2.760	0.221	0.093	0.088
500.000	0.190	1.790	3.240	0.553	0.199	0.031
525.000	0.105	2.325	3.250	1.293	0.434	-0.001
550.000	0.037	1.903	2.751	2.188	0.943	-0.005
575.000	0.003	0.862	1.032	2.199	1.397	-0.004
600.000	-0.002	0.171	0.178	1.076	1.278	-0.003
625.000	-0.003	0.012	0.015	0.132	0.243	
650.000	-0.007	0.002	0.004	0.005	0.011	
675.000		0.039		-0.004	-0.007	
700.000		0.004		-0.002	-0.006	



Result: Water has the highest relative polarity because of the low amount of energy and wavelength took to reach the max Absorbance. Some of the solvents took the same amount of wavelength to reach the max absorbance. Acetonitrile and Acetone took the higher amount of wavelength to reach the max absorbance.

Discussion: There is a difference between the visual analysis of the relative energies and energy ranking from actual measurement of the energies using the Genesys 20 because visual analysis was a predicator or finding the amount of light that can able absorbed. hypochromic shift was occurring during the experiment. The types of categories in this experiment are the solvents that took higher wavelengths to turn into negative, such as the 1-Propanol and Acetonitrile, Acetone, and solvents that require shorter wavelengths like methanal and water. Most of the polarity was miscible in the table at Solvent Polarity Table, so it could not ably compare it. The solvent will bathochromic shift because it took higher amount of wavelength to get higher Absorbance. It will be less than the first solvent because of the higher amount required. Conclusion: The purpose is to determine the wavelength of maximum absorption of solution and it able to achieves through the experiment several types of dyed solvent and recording their absorption of solution and try to calculate their polarity's. The results were little like anticipated outcomes because there may be small error occurring during the experiment such as the exposure of light to solvent may have resulted in different outcome. In future, it may be

helpful to experiment with low lighting so that light does not affect the solvent.