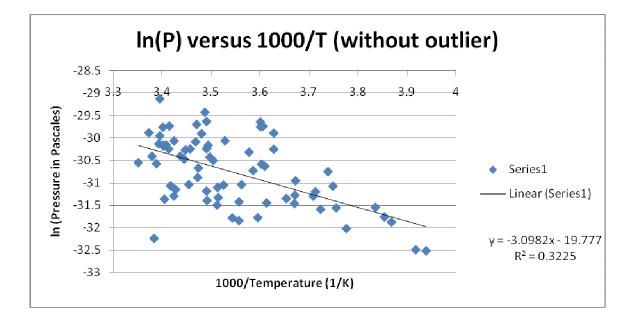
SUMMARY O	UTPUT							
Regression Statistics								
Multiple R	0.567852							
R Square	0.322456							
Adjusted R								
Square	0.312913							
Standard	/ /							
Error	0.641388							
Observation	70							
S	73							
ANOVA					<u>Oinnifin an a</u>			
	df	SS	MS	F	Significanc e F			
	u	13.9005	13.9005		er			
Regression	1	13.9005	13.9005	33.7901	1.61E-07			
negression	1	29.2078	0.41137	0	1.01E-07			
Residual	71	29.2070	9					
ricoldual	7.1	43.1084	0					
Total	72	4						
	Coefficient	Standar				Upper	Lower	Upper
	S	d Error	t Stat	P-value	Lower 95%	95%	95.0%	95.0%
						-	-	-
		1.89142	-	5.11E-		16.005	23.548	16.005
Intercept	-19.7772	5	10.4562	16	-23.5486	8	6	8
		0 50000				-	-	-
V Verieble 1	0,00000	0.53298	-	1.61E-	4 10000	2.0354	4.1609	2.0354
X Variable 1	-3.09822	7	5.81293	07	-4.16096	7	6	7



WRITTEN SUMMARY:

Congener 56 (+60): 2,3,3',4-tetrachlorobiphenyl (coeluting with 2,3,4,4'-tetrachlorobiphenyl) CAS #: 033025-41-1 Name: 2,3,4,4'-TETRACHLOROBIPHENYL

•**<u>R-value and Significance of F-statistic</u>**: The r-values are less than 0.7 (r= 0.47 with the outlier, 0.56 without the outlier) indicating a weak linear correlation. The F-statistic significance is less that α =0.05 or 0.01 (F-stat. sig = 2.29E-5 with the outlier, 1.61E-7 without it), so there is a linear relationship at the 95% and 99% confidence level.

•<u>Slope and ΔH (kJ/ mol)</u>: The ΔH value obtained was low, less than 50 kJ/ mol (31.8 kJ/ mol with the outlier, 25.8 kJ/ mol without the outlier), which indicates that this congener is fairly volatile and the source of this congener is not local.

•<u>HLC data:</u> HLC = 1.25 E -5 atm-m3/ mole (citation: <u>http://www.syrres.com/esc/physdemo.htm</u>) The group showed an inverse relationship between the ΔH and HLC values.