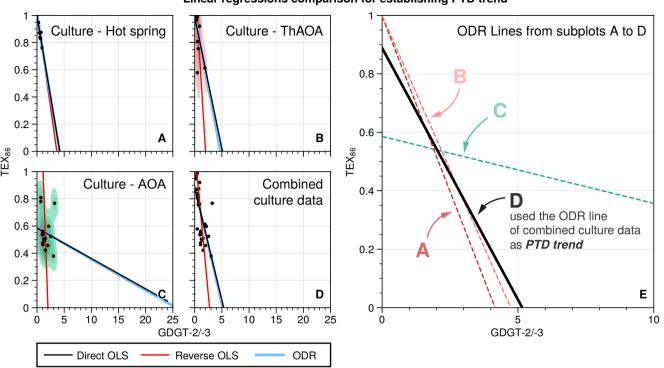
Linear regressions comparison for establishing PTD trend



Subplot	Dataset	Dataset	Regression equation Expressed as Y = mX + c where m = slope, c = y-intercept	r²	p-value
Α	Culture - Hot spring	Direct Ordinary Least Square (OLS) Reverse OLS Orthogonal Distance Regression (ODR)	y = -0.238x + 0.996 y = -0.279x + 1.017 y = -0.240x + 0.997	0.852 0.852 0.866	3.030e-03 3.030e-03 2.916e-03
В	Culture - ThAOA	Direct OLS (TEX ₈₆ on GDGT-2/-3) Reverse OLS (GDGT-2/-3 on TEX ₈₆) ODR	y = -0.193x + 0.987 y = -0.642x + 1.281 y = -0.211x + 0.999	0.301 0.301 0.357	1.006e-01 1.006e-01 7.841e-02
С	Culture - AOA	Direct OLS Reverse OLS ODR	y = -0.022x + 0.585 y = -1.115x + 2.245 y = -0.021x + 0.586	0.020 0.020 0.021	5.753e-01 5.753e-01 5.659e-01
D	Combined culture data	Direct OLS Reverse OLS ODR	y = -0.165x + 0.881 y = -2.357x + 2.730 y = -0.172x + 0.888	0.389 0.389 0.423	6.236e-05 6.236e-05 2.916e-03