```
20.1 | Sensitivity = KA = 0.4065 (SA = KAG + SR or y = Mx + b)
                                    Slope from lin reg.
20.2 | LLOD = \frac{30}{m} \left( \frac{35}{m} \text{ actually} \right) = \frac{3(0.3294)}{0.4065} = 2.431 \text{ my L}^{-1}
20.3 | LL00 = \frac{1058}{m} = \frac{10(0.3294)}{0.4065} = 8.103 mg L<sup>-1</sup>
20.4 | ULOQ = intersection of two lines
                         0.4065x + 4.4365 = 0.07176x + 20.90095.
                                                                         looks ok from plot!
                         0.33474x = 16.4645
                                   x = 49.1858 mg L-1 = [49.19 mg L-1]
21.1 | Conc = 5A-Sreas
                                            (mean (127.1, 124.8, 123.8) -4 4365)
                                     = (123.567 - 4.4365) = 293.1 \text{ mg L}^{-1}
.21.2.
              S_{CA} = \frac{S_{T}}{b_{1}} \sqrt{\frac{1}{m} + \frac{1}{n}} + \frac{\left(\overline{S}_{Samp} - \overline{S}_{SID}\right)^{2}}{\left(b_{1}\right)^{2} \sum_{i=1}^{n} \left(C_{SID} - \overline{C}_{SID}\right)^{2}} 
CI = \pm S_{CA}
              given: S_{\Gamma} = 0.4855 b_{I} = 10.4065 (510pe)

M = 5 (\pm 5705) S_{I=1} (C_{570} - C_{570})^{2} = 555.4
                                               = [mean (1221, 124.8, 123.6) - mean (10.61, 15.58, 20.01)]
                                              = 1.0997×104
                                                          7 DOF= N-2 = 5-2=3 139.7
                                              CI = £5c4 = (3.182) (13.10) = 41,69 mg/L
    Answer: 293,12 1397 mg/L
```