The CR almost Schur lemma and the positivity conditions

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Abstract. We establish a new version of the CR almost Schur lemma which gives an estimation of the pseudohermitian scalar curvature on a compact strictly-pseudoconvex pseudohermitian manifold to be a constant in terms of the norm of the traceless Webster Ricci tensor and the pseudohermitian torsion under a certain positivity condition. In the torsion-free case, *i.e.*, for a compact Sasakian manifold, our positivity condition coincides with the known one and we obtain a better estimate.