

```

function correctedMTF = correctMTF_cs(data,freq_y,freq_z)
    sz = size(data);
    y_len = sz(1);
    z_len = sz(2);
    d = 0.035; %in mm
    newdata = zeros(y_len,z_len);
    for i = 1:y_len
        for j = 1:z_len
            r = sqrt((freq_y*(i-21))^2 + (freq_z*(j-21))^2);
            newdata(i,j) = data(i,j)/((2*besselj(1,pi*d*r))/(pi*d*r));
        end
    end
    %newdata(21,21) = max(newdata(:));
    newdata(21,21) = data(21,21);
    correctedMTF = newdata;
end

```