**MATLAB commands for Step 5.6:**

v = loadvec('\*.vc7');

v = averf(v);

% % MATLAB code block for Q-criterion calculations.

q\_criterion = vec2scal (v,'q ');

showf(q\_criterion)

**MATLAB commands for Step 5.6.1:**

% % MATLAB code block for Eq 13.

MexFn\_temp = [];

n = 10;

[X,Y] = meshgrid(-n:1:n);

for x = -n:1:n

for y = -n:1:n

mexfn = (2-((a(k)^(-0.5))\*x)^2-((a(k)^(-0.5))\*y)^2).\*exp((-1/2)\*(((a(k)^(-0.5))\*x)^2+((a(k)^(-0.5))\*y)^2));

MexFn\_temp = [MexFn\_temp mexfn];

end

end

for i = 1:1:21

MexFn\_rows = [MexFn\_rows; MexFn\_temp(((i\*21)-20):(i\*21))];

end

**MATLAB commands for Step 5.6.2:**

% % MATLAB code block for Fourier multiplication

data = vec2scal (v,'curl ');

R1 = fft2(data);

S1 = fft2(MexFn\_rows);

G = S1.\*R1;

g = real(ifft2(G));

**MATLAB commands for Step 5.6.3:**

% % MATLAB command for Shannon entropy calculation

h = entropy(uint8(abs(G)));