

and compression stages:

<i>Value</i>	<i>description</i>	<i>Symbol</i>
197	Width of the image	wm
224	Height of the image	hm
	The size of image	Size_image
40	The max number of the clusters in the image	Cmax
20	The min number of the clusters in the image	Cmin
34	The exact value of the number of the clusters	C
1.5	Limit the fuzzy value in the membership function	M
0.5	The minimum error value is accepted between the membership value in the current iteration and the previous iteration.	exponent
30	The max value of the number accepted iterations	maxiter

After applying the FCM algorithm, now will applying the RLE algorithm on the Y , U and V components. The table 6 Obtains the all components before and after compression.

Table 6: Obtains the all components before and after compression.

#### 11-2-4 Convert the Image to RGB Color Space:

After the end of the FCM and making the YUV clustering image then this image is converted to RGB color space.

#### 11-3 The third case: 11-3-1 Convert

#### toYUV Color Space:

Figure 7 explains the image RGB color space in (a) and image YUV color space in (b).

Figure 7 the image RGB and YUV color space. 11-3-1-Cluster Processing: Result

in this stage will apply the FCM on the picture, After making the YUV image ,where table 7 explains the all parameters before the input to applying the FCM algorithm.

In the end of the FCM algorithm the actual number of the clusters is (25) clusters with (25) it-