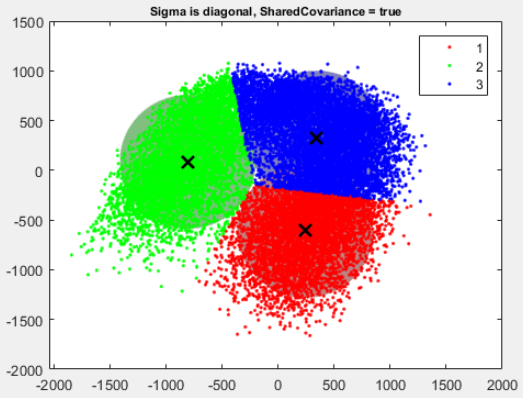
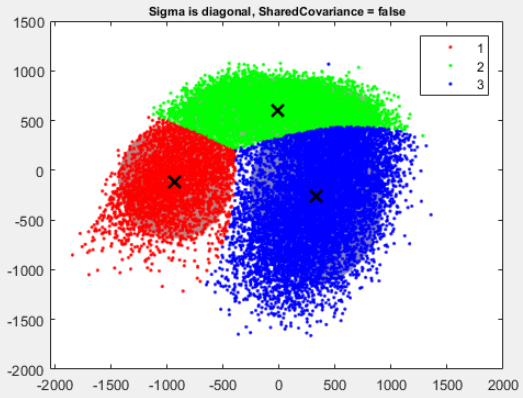
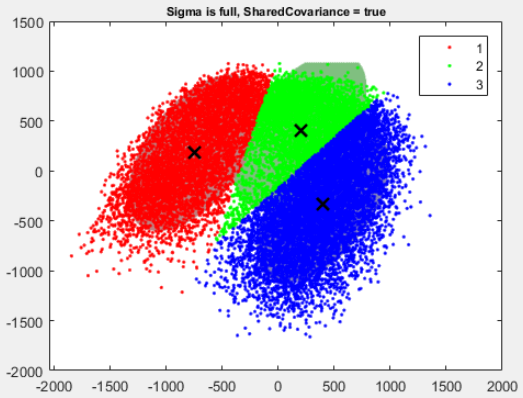
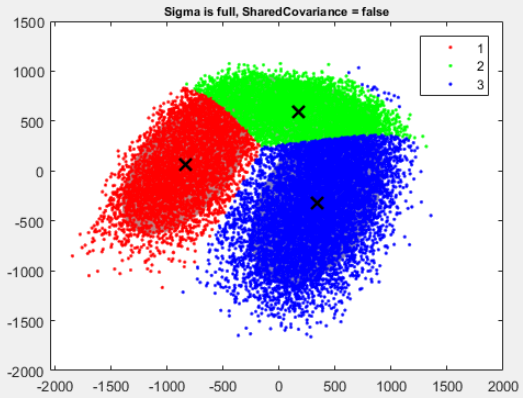
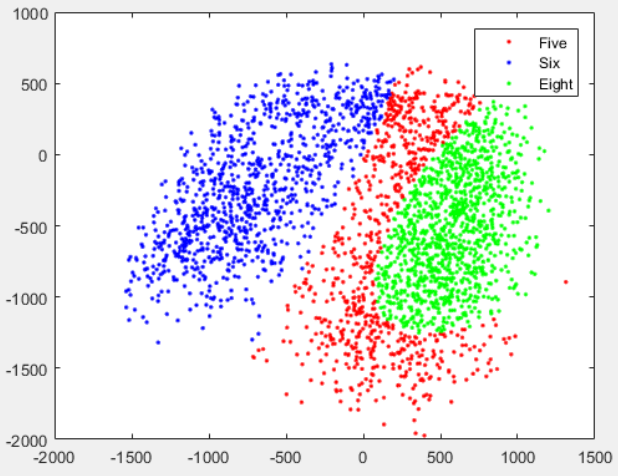
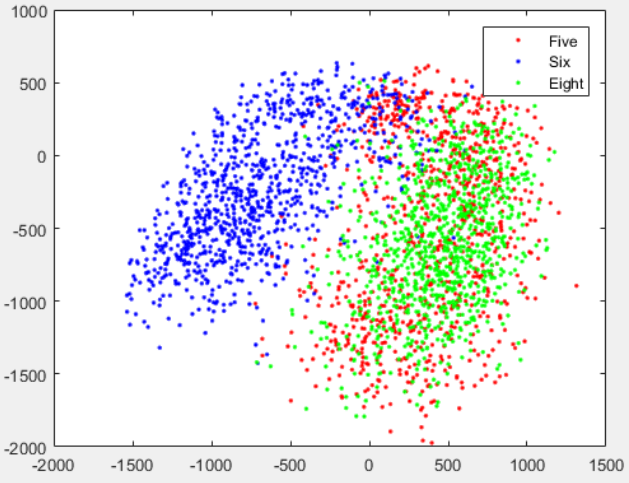

Sigma is diagonal, SharedCovariance = true
1
2
3


Sigma is diagonal, SharedCovariance = false
1
2
3


Sigma is full, SharedCovariance = true
1
2
3


Sigma is full, SharedCovariance = false
1
2
3


Five
Six
Eight


Five
Six
Eight

	Diag, Shared	Diag, Diff	Full, Shared	Full, Diff	classification
Mean1 (x,y)	241.0429, -606.4923	-933.4577, -112.7757	-752.1196, 180.6561	-832.7579, 62.5048	175.2481, -643.1565
Mean2 (x,y)	-808.8862, 84.3273	-11.4418, 604.4417	197.3291, 400.5303	172.9033, 592.9637	-689.2972, -222.7231
Mean3 (x,y)	341.9994, 327.4778	331.3292, -256.5128	397.4750, -336.8129	339.0277, -323.7212	576.6707, -525.0329
Sigma1	1.1923, 1.4695	0.8187, 1.0600	1.1364, 0.8254, 0.8254, 1.9937	1.0591, 0.7170, 0.7170, 1.5774	0.8295, 0.6515, 0.6515, 5.2073
Sigma2	1.1923, 1.4695	2.3506, 0.3415	1.1364, 0.8254, 0.8254, 1.9937	1.6798, -0.3315, -0.3315, 0.3904	1.6437, 1.2218, 1.2218, 1.8765
Sigma3	1.1923, 1.4695	1.1577, 2.4833	1.1364, 0.8254, 0.8254, 1.9937	1.1354, 0.6559, 0.6559, 2.2059	0.5224, 0.3783, 0.3783, 1.4777

Sigma is calculated 1.0e+5 * x

The visualization of the graphs indicates that the clustering methods have more defined lines between the different clusters while the classification method is more defined. This also means that the centre of the clusters closer resembles an actual centre compared to what is shown through the classification.

This is further concluded by the mean value of “Five” in the classification as it is located within the green area.

The variance from the classification is greater as is also expressed by their “intersections” whereas the smaller variance from the clustering is defined by the strict lines that separates the clusters.