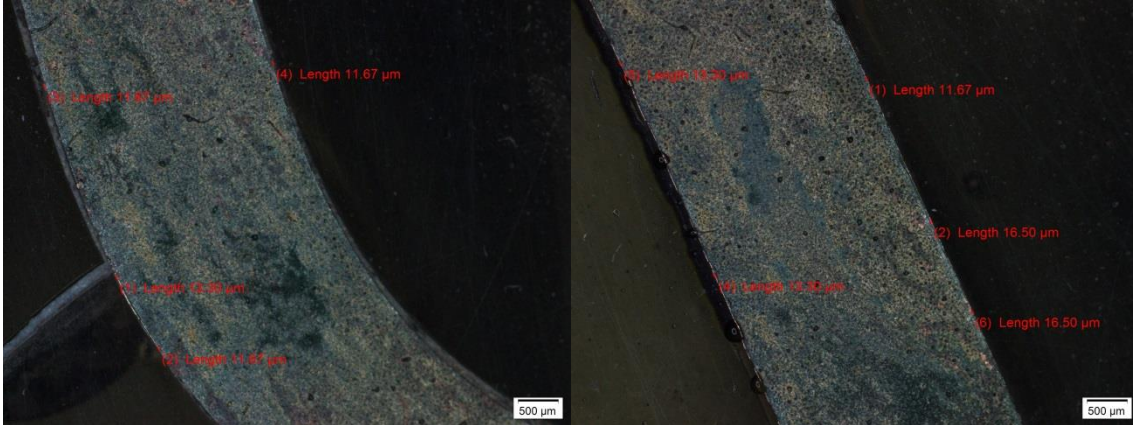
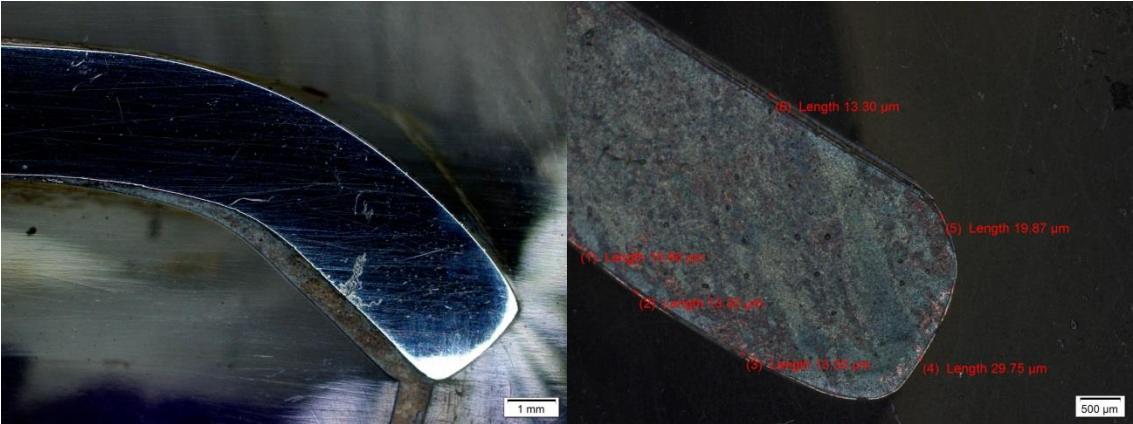


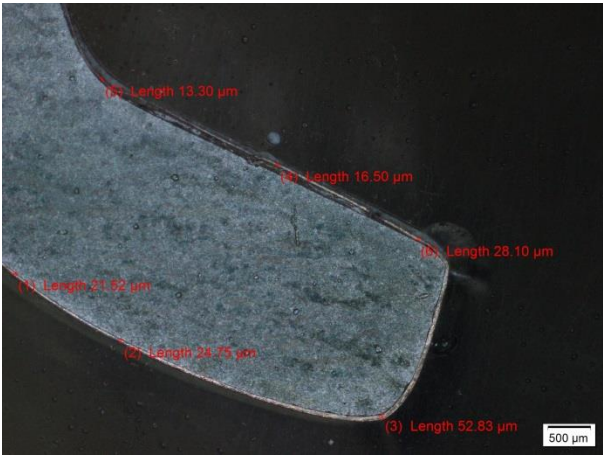
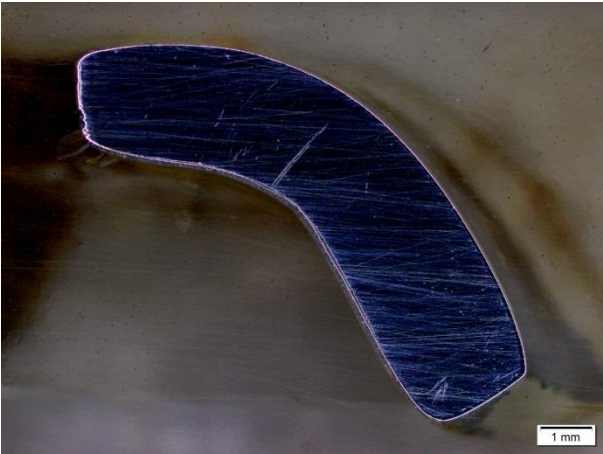
LAMPIRAN

Ketebalan variabel 30 menit



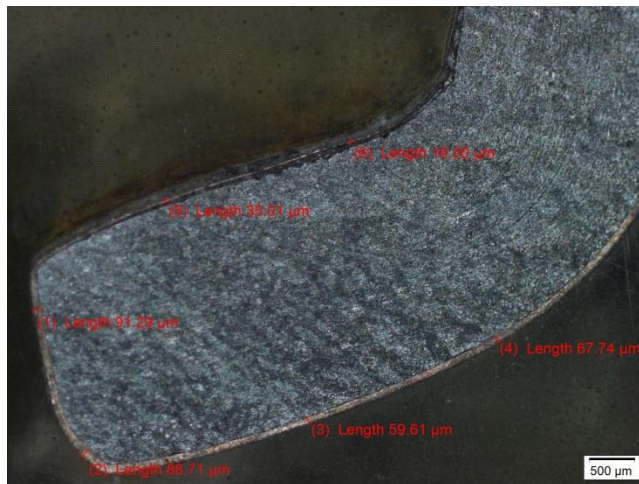
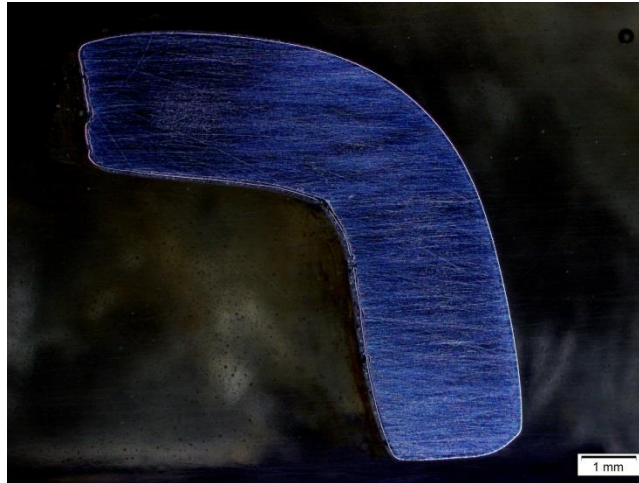
LAMPIRAN

Ketebalan variabel 60 menit



LAMPIRAN

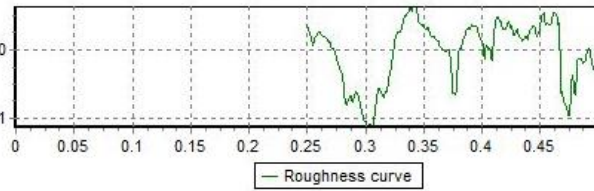
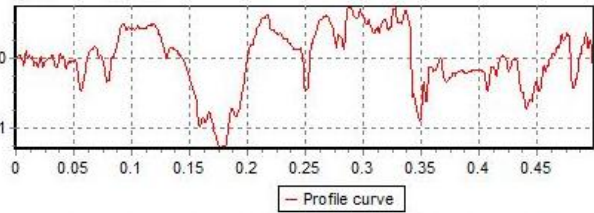
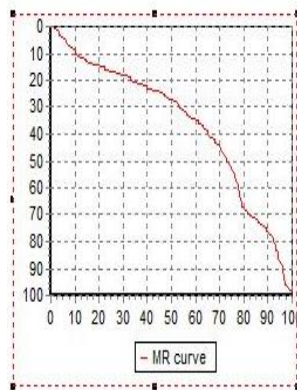
Ketebalan variabel waktu 90 menit



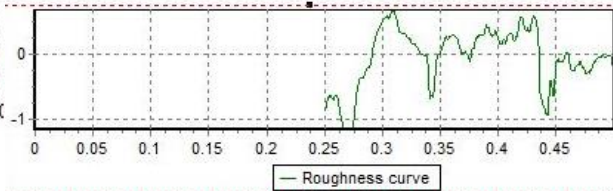
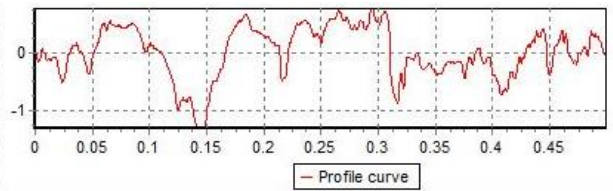
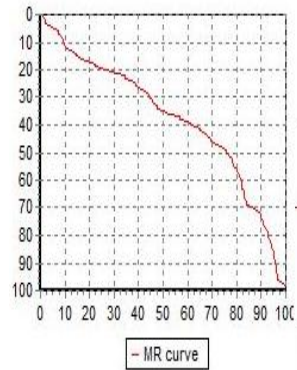
LAMPIRAN

Kekasaran sebelum *plating*

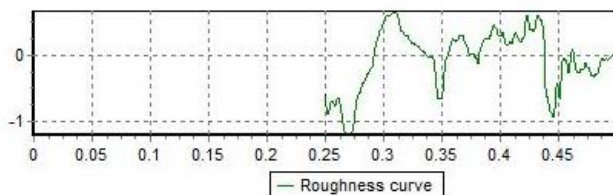
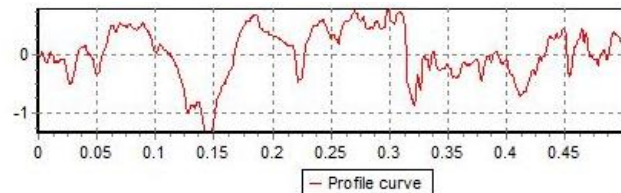
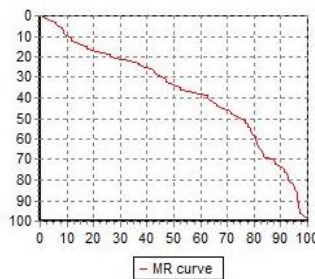
$R_a = 0.377 \text{ } \mu\text{m}$
 $R_{3z} = 1.059 \text{ } \mu\text{m}$
 $R_v = 1.134 \text{ } \mu\text{m}$
 $R_p = 0.630 \text{ } \mu\text{m}$
 $R_t = 1.764 \text{ } \mu\text{m}$
 $R_z = 1.764 \text{ } \mu\text{m}$
 $R_S = 0.023 \text{ mm}$
 $R_{sk} = -0.956$
 $R_{Sm} = 0.042 \text{ mm}$
 $R_q = 0.461 \text{ } \mu\text{m}$
 $R_{zJIS} = 1.059 \text{ } \mu\text{m}$
 $R_{3y} = 1.059 \text{ } \mu\text{m}$
 $R_{ku} = 2.683$



$R_a = 0.356 \text{ } \mu\text{m}$
 $R_{3z} = 1.008 \text{ } \mu\text{m}$
 $R_v = 1.185 \text{ } \mu\text{m}$
 $R_p = 0.681 \text{ } \mu\text{m}$
 $R_t = 1.865 \text{ } \mu\text{m}$
 $R_z = 1.865 \text{ } \mu\text{m}$
 $R_S = 0.026 \text{ mm}$
 $R_{sk} = -0.997$
 $R_{Sm} = 0.063 \text{ mm}$
 $R_q = 0.451 \text{ } \mu\text{m}$
 $R_{zJIS} = 0.983 \text{ } \mu\text{m}$
 $R_{3y} = 1.008 \text{ } \mu\text{m}$
 $R_{ku} = 3.116$



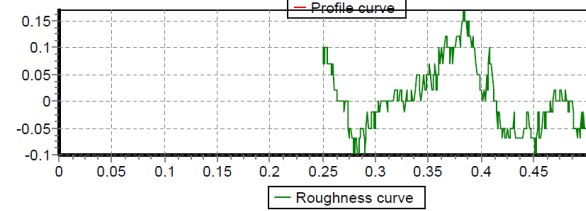
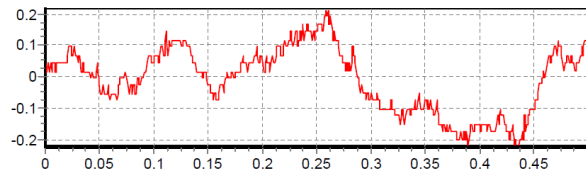
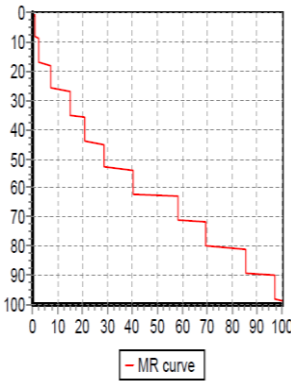
$R_a = 0.368 \text{ } \mu\text{m}$
 $R_{3z} = 1.008 \text{ } \mu\text{m}$
 $R_v = 1.210 \text{ } \mu\text{m}$
 $R_p = 0.681 \text{ } \mu\text{m}$
 $R_t = 1.890 \text{ } \mu\text{m}$
 $R_z = 1.890 \text{ } \mu\text{m}$
 $R_S = 0.022 \text{ mm}$
 $R_{sk} = -0.955$
 $R_{Sm} = 0.050 \text{ mm}$
 $R_q = 0.462 \text{ } \mu\text{m}$
 $R_{zJIS} = 1.008 \text{ } \mu\text{m}$
 $R_{3y} = 1.008 \text{ } \mu\text{m}$
 $R_{ku} = 2.982$



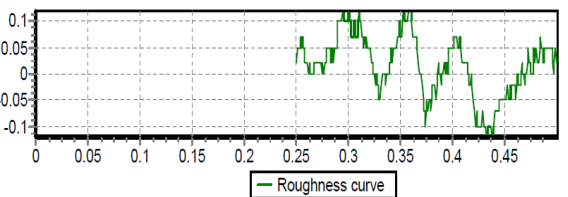
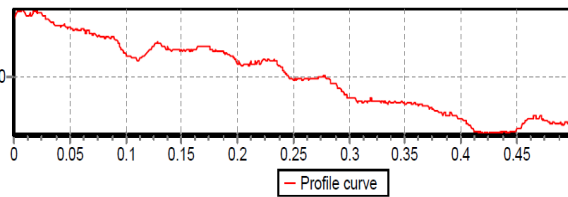
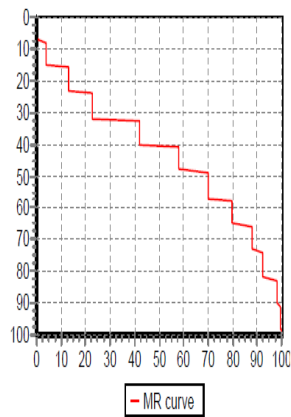
LAMPIRAN

Kekasaran setelah *plating* variabel waktu 30 menit

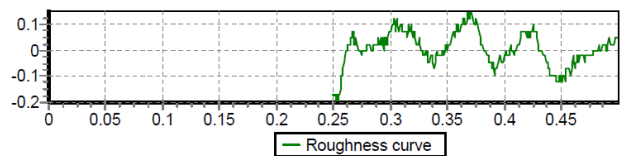
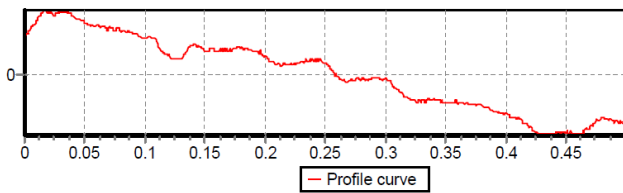
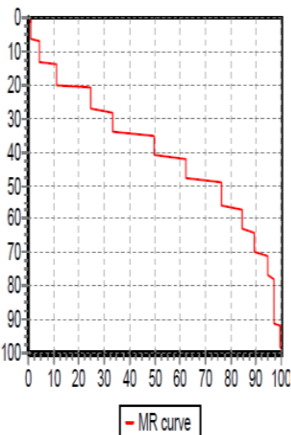
$R_a = 0.052 \text{ } \mu\text{m}$
 $R_{3z} = 0.126 \text{ } \mu\text{m}$
 $R_v = 0.101 \text{ } \mu\text{m}$
 $R_p = 0.176 \text{ } \mu\text{m}$
 $R_t = 0.277 \text{ } \mu\text{m}$
 $R_z = 0.277 \text{ } \mu\text{m}$
 $R_S = 0.012 \text{ mm}$
 $R_{sk} = 0.780$
 $R_{Sm} = 0.036 \text{ mm}$
 $R_q = 0.065 \text{ } \mu\text{m}$
 $R_{zJIS} = 0.151 \text{ } \mu\text{m}$
 $R_{3y} = 0.126 \text{ } \mu\text{m}$
 $R_{ku} = 2.649$



$R_a = 0.054 \text{ } \mu\text{m}$
 $R_{3z} = 0.151 \text{ } \mu\text{m}$
 $R_v = 0.151 \text{ } \mu\text{m}$
 $R_p = 0.151 \text{ } \mu\text{m}$
 $R_t = 0.302 \text{ } \mu\text{m}$
 $R_z = 0.302 \text{ } \mu\text{m}$
 $R_S = 0.021 \text{ mm}$
 $R_{sk} = 0.433$
 $R_{Sm} = 0.042 \text{ mm}$
 $R_q = 0.064 \text{ } \mu\text{m}$
 $R_{zJIS} = 0.176 \text{ } \mu\text{m}$
 $R_{3y} = 0.151 \text{ } \mu\text{m}$
 $R_{ku} = 2.210$



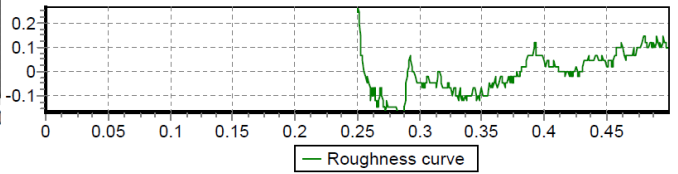
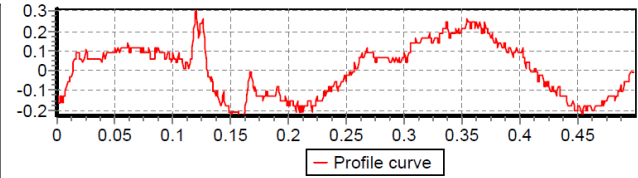
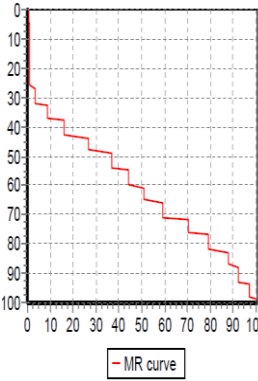
$R_a = 0.056 \text{ } \mu\text{m}$
 $R_{3z} = 0.202 \text{ } \mu\text{m}$
 $R_v = 0.202 \text{ } \mu\text{m}$
 $R_p = 0.151 \text{ } \mu\text{m}$
 $R_t = 0.353 \text{ } \mu\text{m}$
 $R_z = 0.353 \text{ } \mu\text{m}$
 $R_S = 0.019 \text{ mm}$
 $R_{sk} = -0.171$
 $R_{Sm} = 0.042 \text{ mm}$
 $R_q = 0.071 \text{ } \mu\text{m}$
 $R_{zJIS} = 0.202 \text{ } \mu\text{m}$
 $R_{3y} = 0.202 \text{ } \mu\text{m}$
 $R_{ku} = 2.836$



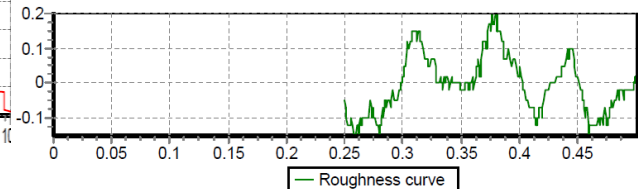
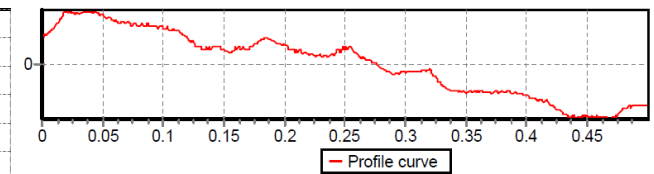
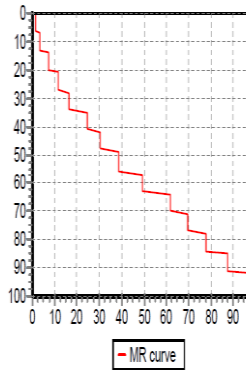
LAMPIRAN

Kekasaran setelah *plating* variabel waktu 30 menit

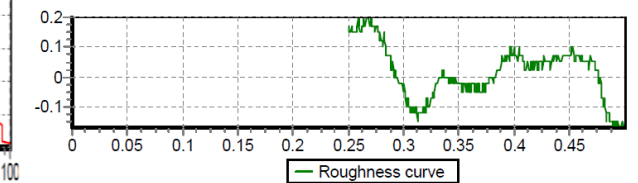
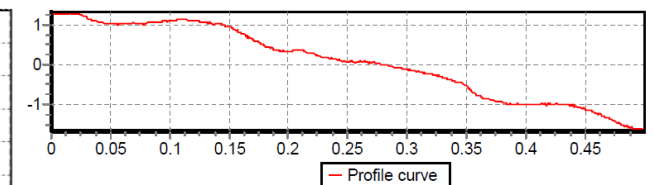
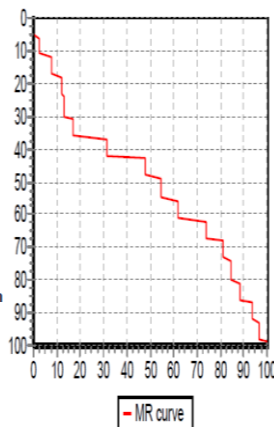
$R_a = 0.076 \text{ }\mu\text{m}$
 $R_{3z} = 0.176 \text{ }\mu\text{m}$
 $R_v = 0.176 \text{ }\mu\text{m}$
 $R_p = 0.277 \text{ }\mu\text{m}$
 $R_t = 0.454 \text{ }\mu\text{m}$
 $R_z = 0.454 \text{ }\mu\text{m}$
 $R_S = 0.032 \text{ mm}$
 $R_{sk} = -0.085$
 $R_{Sm} = 0.063 \text{ mm}$
 $R_q = 0.090 \text{ }\mu\text{m}$
 $R_{zJIS} = 0.202 \text{ }\mu\text{m}$
 $R_{3y} = 0.176 \text{ }\mu\text{m}$
 $R_{ku} = 2.407$



$R_a = 0.073 \text{ }\mu\text{m}$
 $R_{3z} = 0.252 \text{ }\mu\text{m}$
 $R_v = 0.151 \text{ }\mu\text{m}$
 $R_p = 0.202 \text{ }\mu\text{m}$
 $R_t = 0.353 \text{ }\mu\text{m}$
 $R_z = 0.353 \text{ }\mu\text{m}$
 $R_S = 0.017 \text{ mm}$
 $R_{sk} = 0.160$
 $R_{Sm} = 0.028 \text{ mm}$
 $R_q = 0.089 \text{ }\mu\text{m}$
 $R_{zJIS} = 0.202 \text{ }\mu\text{m}$
 $R_{3y} = 0.252 \text{ }\mu\text{m}$
 $R_{ku} = 2.195$

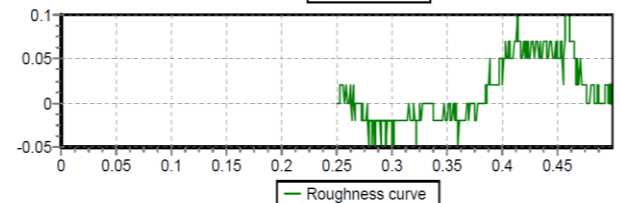
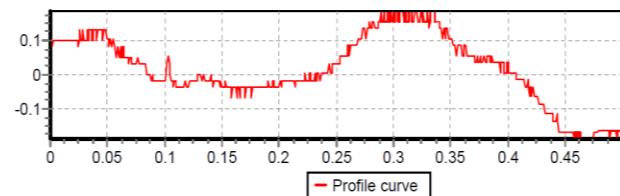
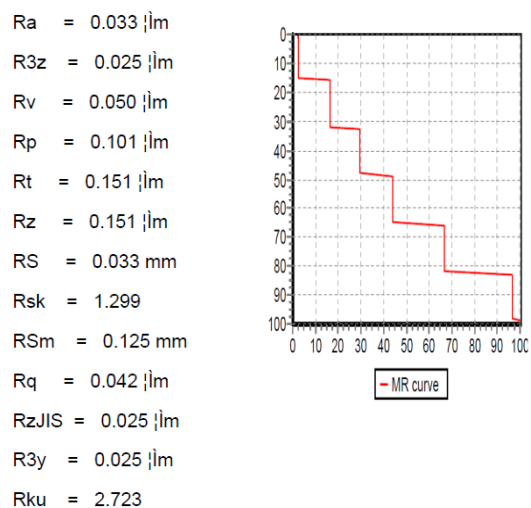
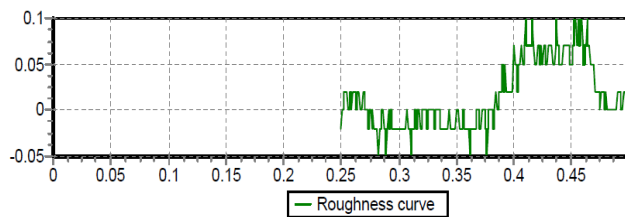
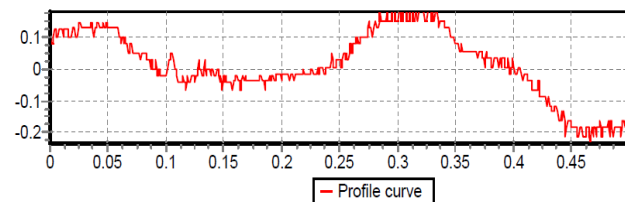
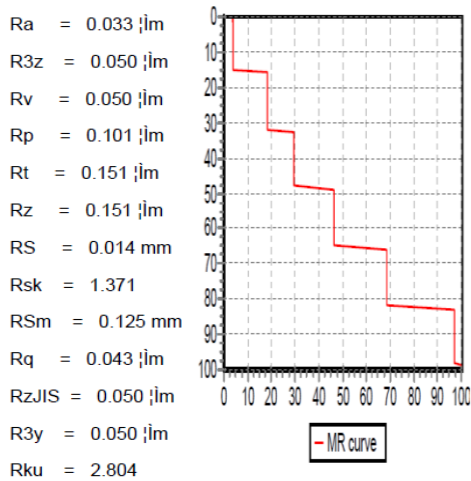
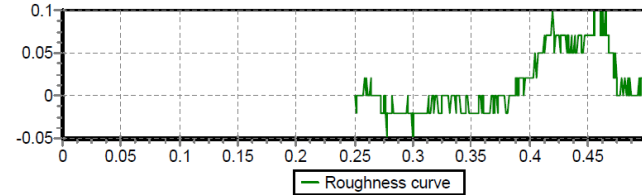
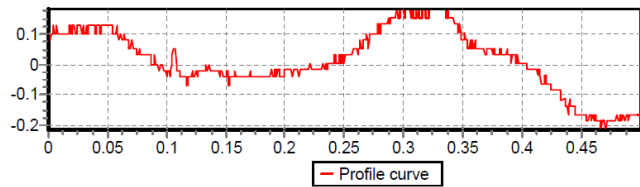
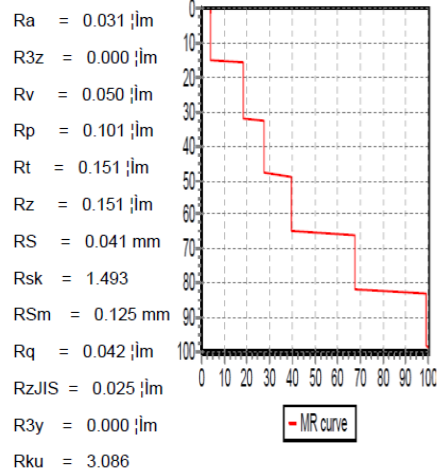


$R_a = 0.077 \text{ }\mu\text{m}$
 $R_{3z} = 0.101 \text{ }\mu\text{m}$
 $R_v = 0.176 \text{ }\mu\text{m}$
 $R_p = 0.227 \text{ }\mu\text{m}$
 $R_t = 0.403 \text{ }\mu\text{m}$
 $R_z = 0.403 \text{ }\mu\text{m}$
 $R_S = 0.042 \text{ mm}$
 $R_{sk} = 0.393$
 $R_{Sm} = 0.083 \text{ mm}$
 $R_q = 0.094 \text{ }\mu\text{m}$
 $R_{zJIS} = 0.151 \text{ }\mu\text{m}$
 $R_{3y} = 0.101 \text{ }\mu\text{m}$
 $R_{ku} = 2.455$



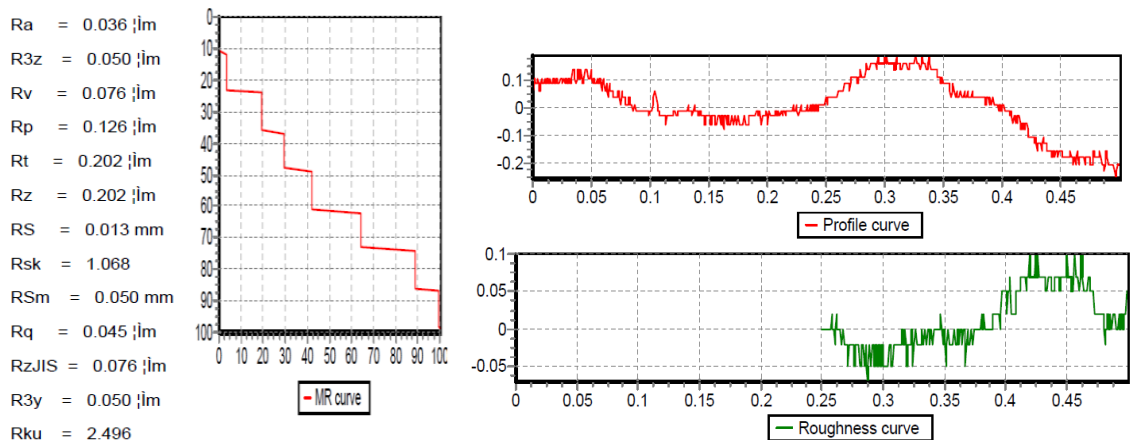
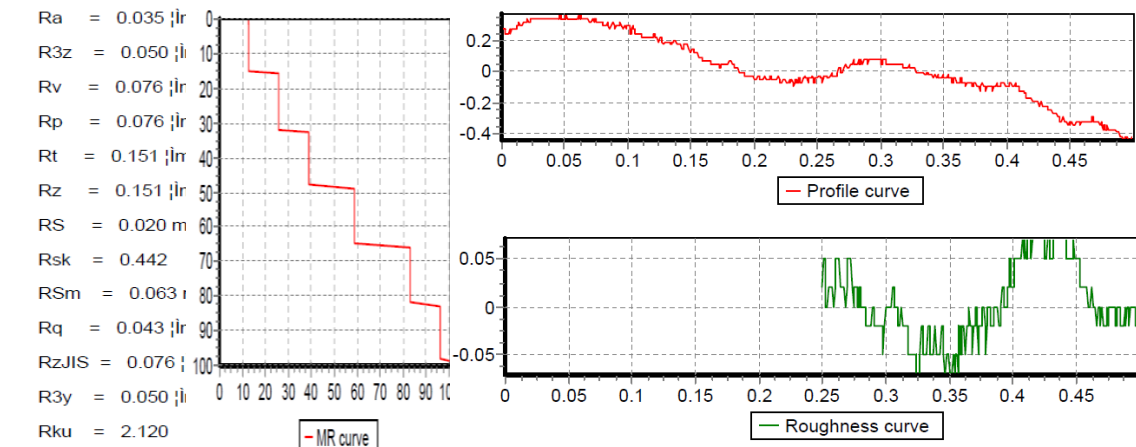
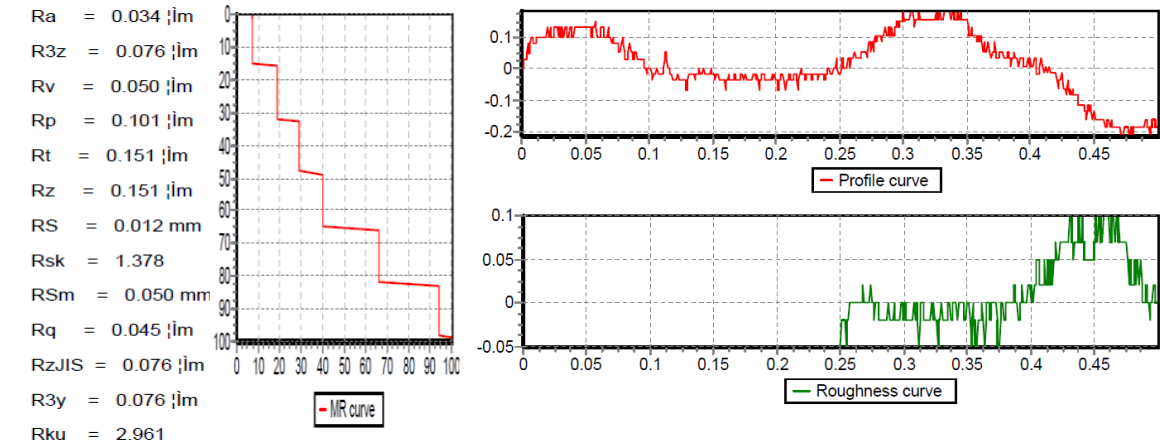
LAMPIRAN

Kekasaran setelah *plating* variabel waktu 60 menit



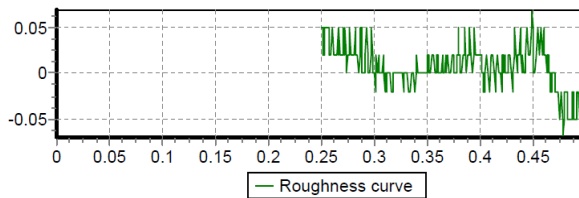
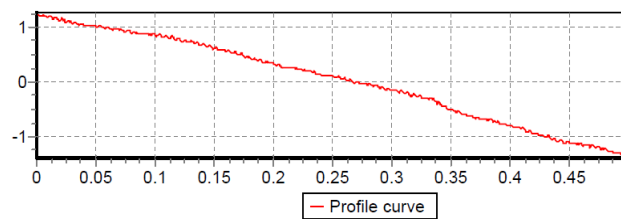
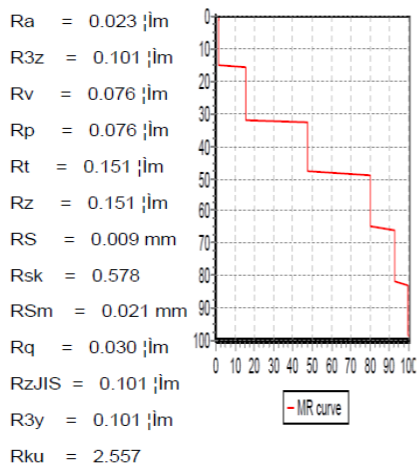
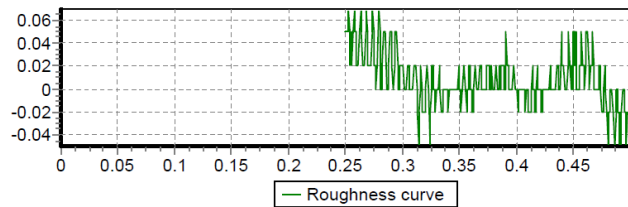
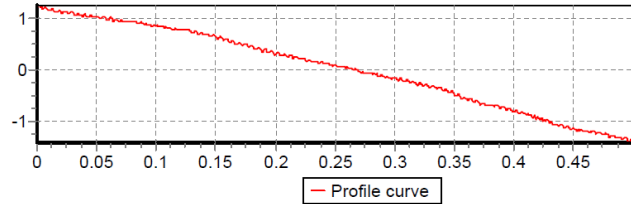
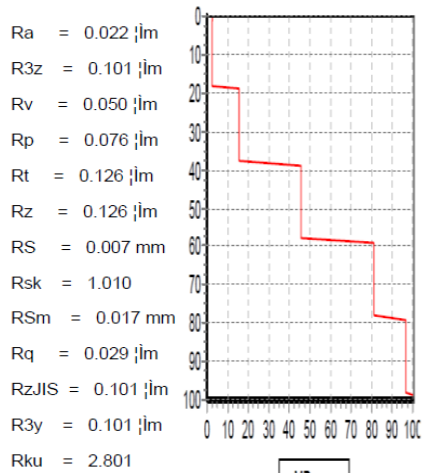
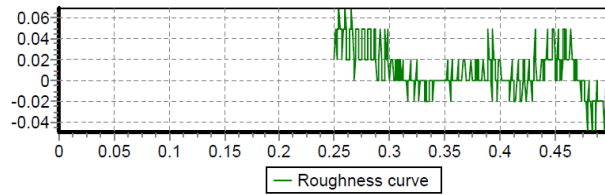
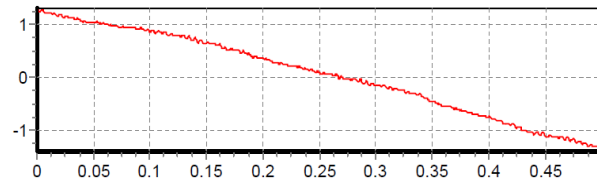
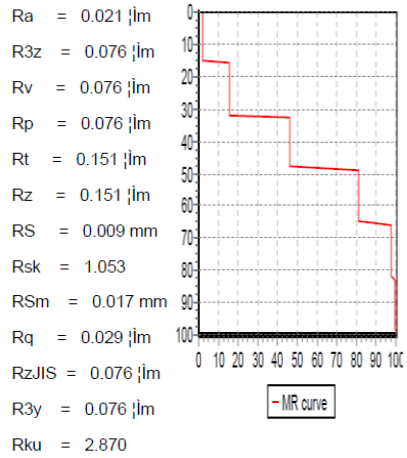
LAMPIRAN

Kekasaran setelah *plating* variabel waktu 60 menit



LAMPIRAN

Kekasaran setelah *plating* variabel 90 menit



LAMPIRAN

Kekerasan setelah *plating* variabel waktu 90 menit

