

1_StandPlane

$e=0.256$ $c=(-1694,2036)=(-0.06,0.07)*H_{nxy}$ norm

$e=0.000$ $c=(-0,-0)=(-0.00,-0.00)*H_{nxy}$ norm

The ellipse fitting error(First): mean= 35(0.00) std= 12545(0.45)

The ellipse fitting error(Second): mean= 0(0.00) std= 71(0.00)

The plane fitting error: mean= -28(-0.00) std= 1173(0.04) Hnz= 48314.964(1.03)

Hb perfect method: remove plane fitting error bigger than $std*0.80$

2243(0.80) data remained

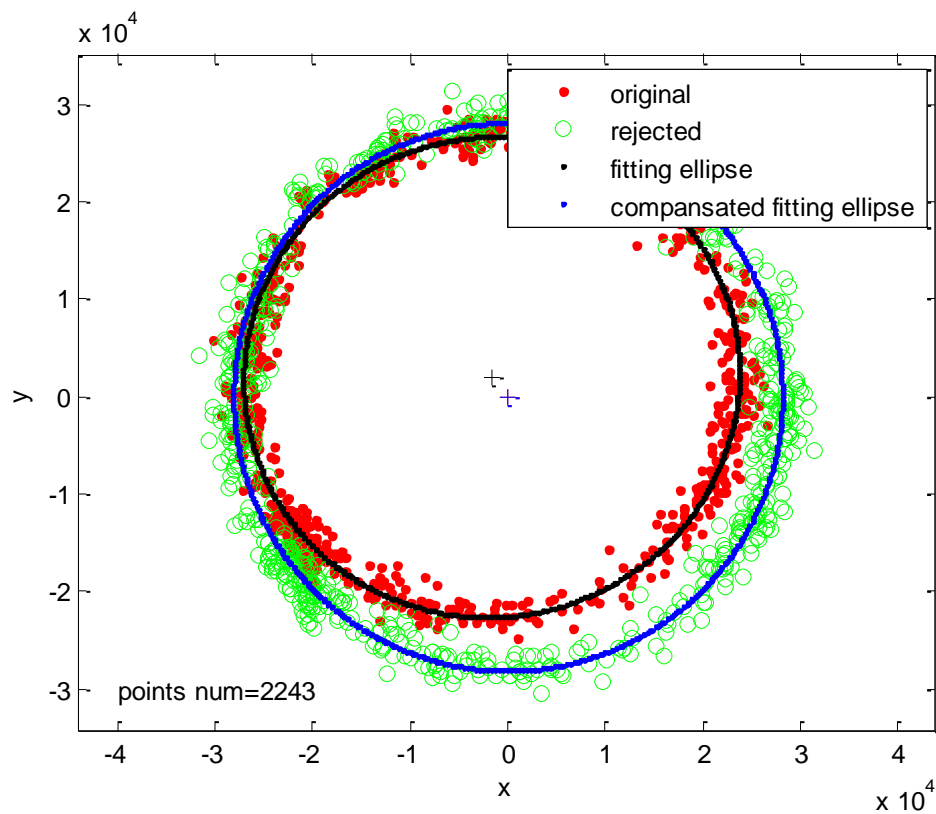
The plane fitting error: mean= -17(-0.00) std= 910(0.03) Hnz= 47895.014(1.02)

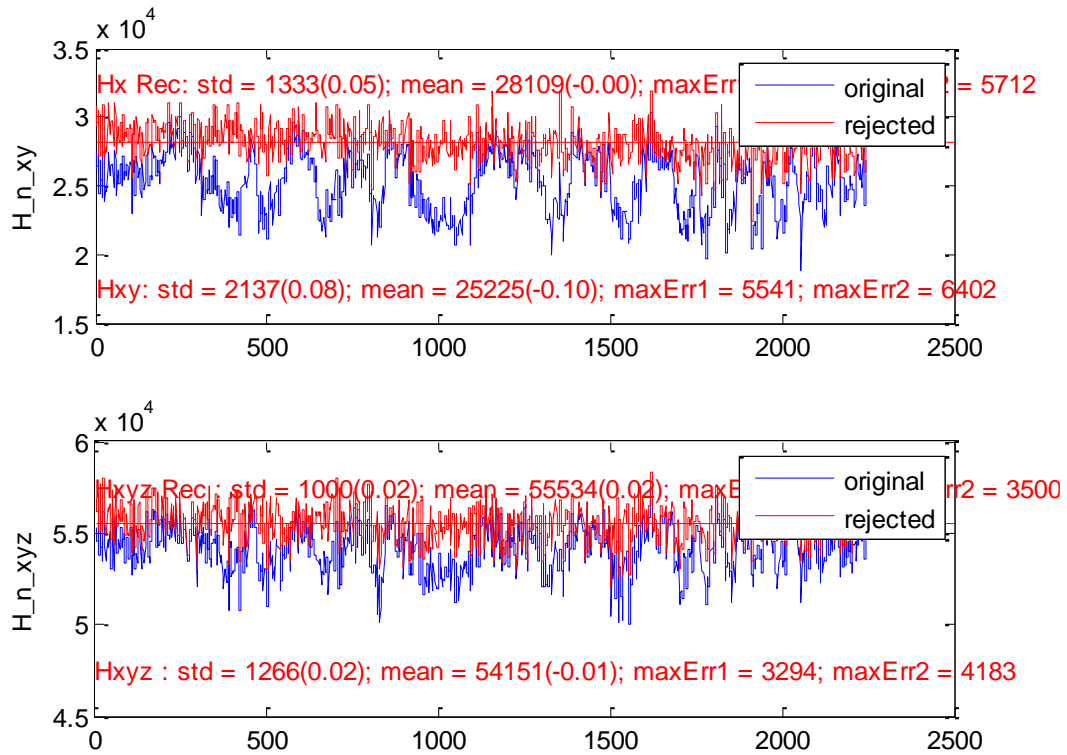
Hnz: std = 910(0.02); mean = 47878(0.02); maxErr1 = 1393; maxErr2 = 3406

Hxy: std = 2137(0.08); mean = 25225(-0.10); maxErr1 = 5541; maxErr2 = 6402

Hx Rec: std = 1333(0.05); mean = 28109(-0.00); maxErr1 = 3837; maxErr2 = 5712

Hxyz Rec : std = 1000(0.02); mean = 55534(0.02); maxErr1 = 2808; maxErr2 = 3500





2_StandPlane

$e=0.239$ $c=(-4734,2384)=(-0.17,0.08)*H_{nxy} \text{ norm}$

$e=0.000$ $c=(0,0)=(0.00,0.00)*H_{nxy} \text{ norm}$

The ellipse fitting error(First): mean= -223(-0.01) std= 12264(0.44)

The ellipse fitting error(Second): mean= -1(-0.00) std= 71(0.00)

The plane fitting error: mean= -89(-0.00) std= 2157(0.08) Hnz= 52435.035(1.12)

Hb perfect method: remove plane fitting error bigger than std*0.80

3626(0.78) data remained

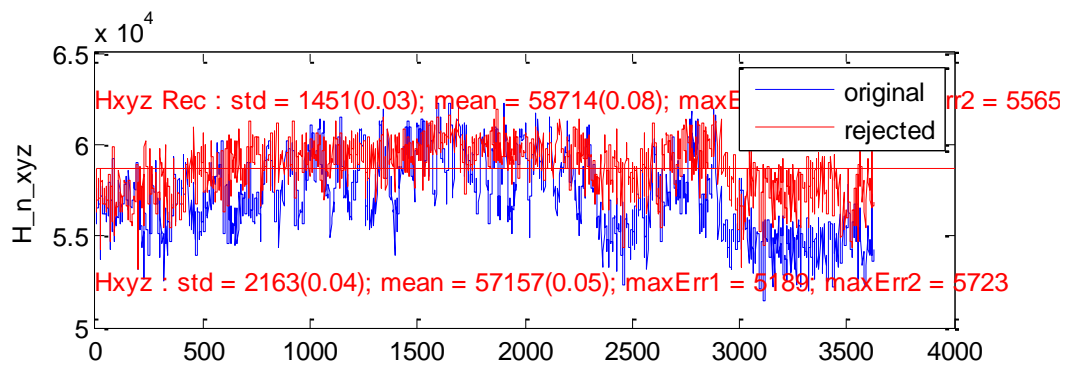
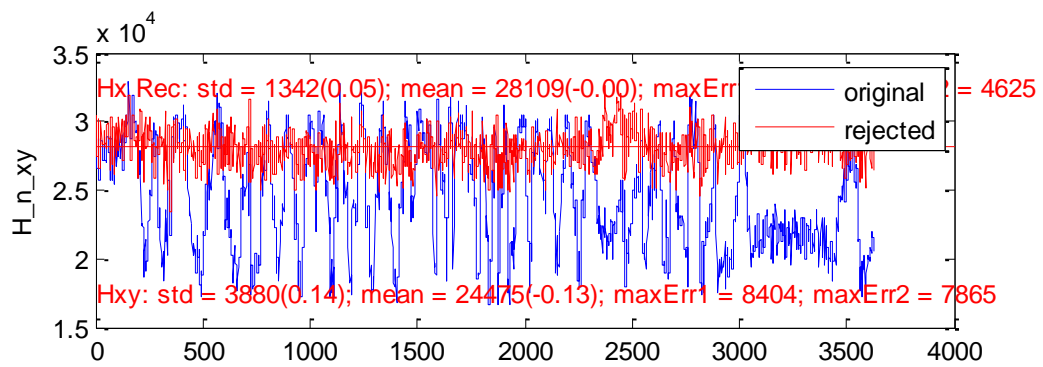
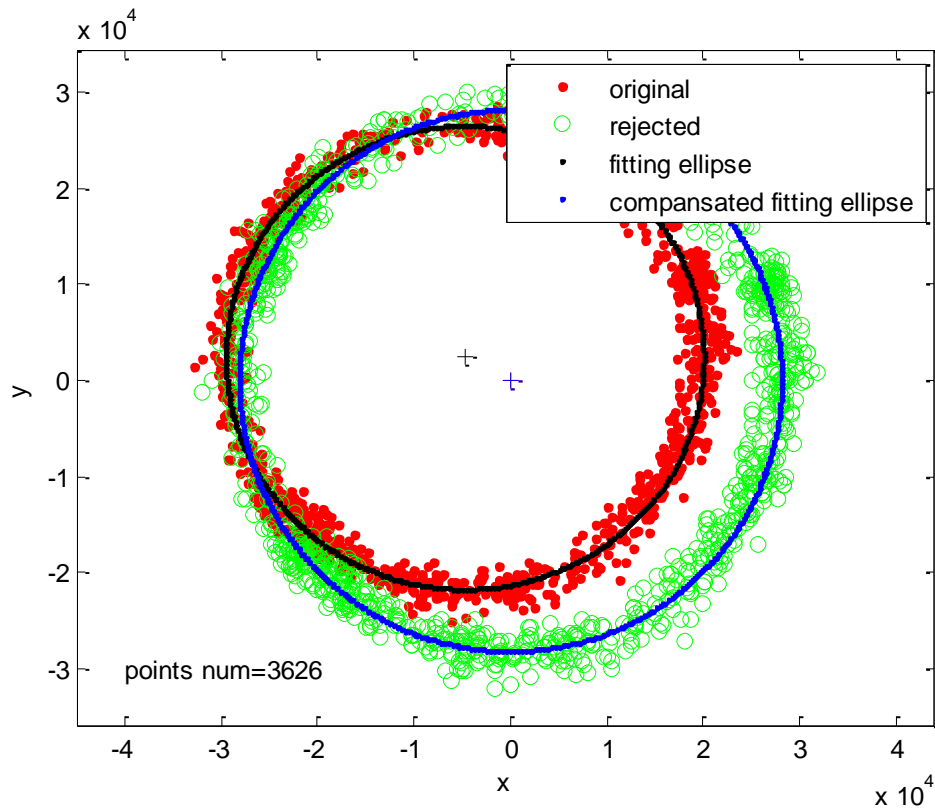
The plane fitting error: mean= -57(-0.00) std= 1713(0.06) Hnz= 51579.885(1.10)

Hnz: std = 1713(0.04); mean = 51523(0.10); maxErr1 = 2722; maxErr2 = 5509

Hxy: std = 3880(0.14); mean = 24475(-0.13); maxErr1 = 8404; maxErr2 = 7865

Hx Rec: std = 1342(0.05); mean = 28109(-0.00); maxErr1 = 4535; maxErr2 = 4625

Hxyz Rec : std = 1451(0.03); mean = 58714(0.08); maxErr1 = 3238; maxErr2 = 5565



2_AirPlane

$e=0.174$ $c=(-2705,1078)=(-0.10,0.04)*H_{nxy}$ norm

$e=0.000$ $c=(0,0)=(0.00,-0.00)*H_{nxy}$ norm

The ellipse fitting error(First): mean= -32(-0.00) std= 21487(0.76)

The ellipse fitting error(Second): mean= -0(-0.00) std= 100(0.00)

The plane fitting error: mean= -335(-0.01) std= 4119(0.15) Hnz= 50965.896(1.09)

Hb perfect method: remove plane fitting error bigger than $std*0.80$

1702(0.81) data remained

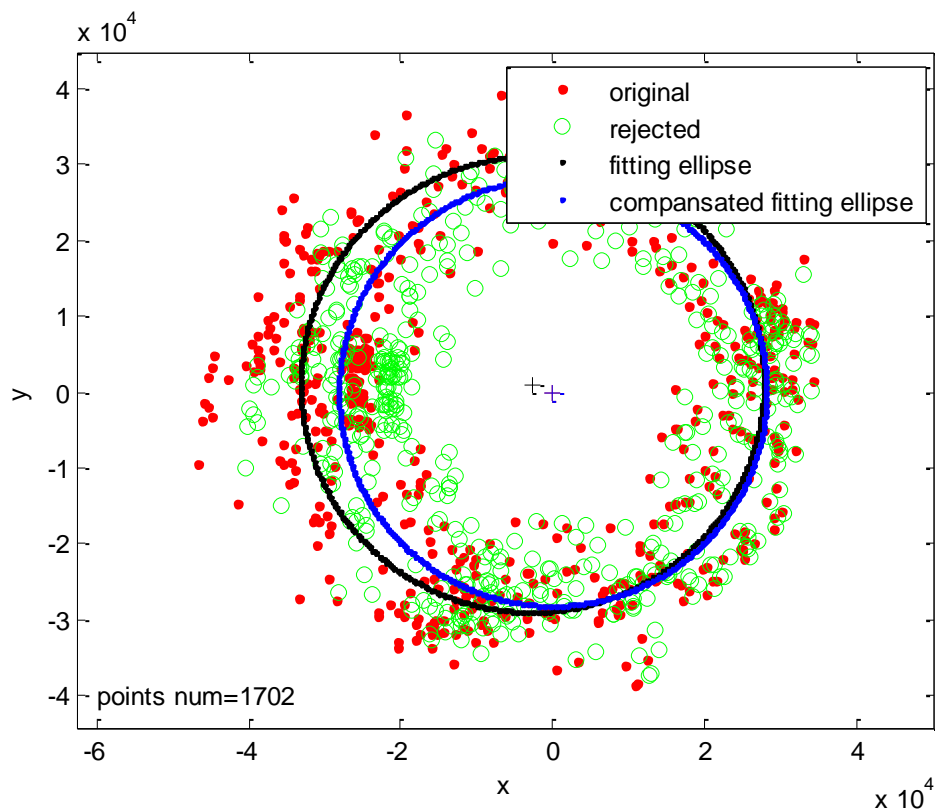
The plane fitting error: mean= -192(-0.01) std= 3078(0.11) Hnz= 49409.326(1.06)

Hnz: std = 3078(0.07); mean = 49217(0.05); maxErr1 = 5131; maxErr2 = 8900

Hxy: std = 5675(0.20); mean = 30124(0.07); maxErr1 = 17479; maxErr2 = 14603

Hx Rec: std = 5074(0.18); mean = 27680(-0.02); maxErr1 = 14046; maxErr2 = 12605

Hxyz Rec : std = 1403(0.03); mean = 56760(0.04); maxErr1 = 4564; maxErr2 = 3437



3_StandPlane

$e=0.243$ $c=(-3680,2053)=(-0.13,0.07)*H_{nxy}$ norm

$e=0.000$ $c=(-0,0)=(-0.00,0.00)*H_{nxy}$ norm

The ellipse fitting error(First): mean= -403(-0.01) std= 12348(0.44)

The ellipse fitting error(Second): mean= -2(-0.00) std= 71(0.00)

The plane fitting error: mean= -64(-0.00) std= 1773(0.06) $H_{nz}=49344.275(1.06)$

Hb perfect method: remove plane fitting error bigger than $std*0.80$

1009(0.80) data remained

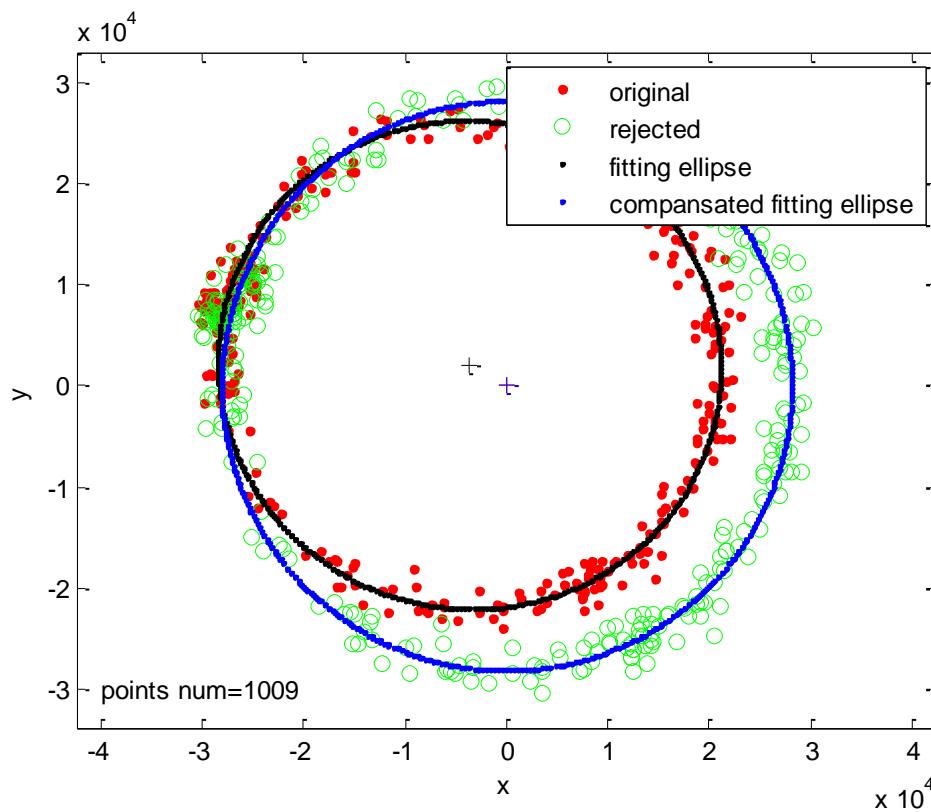
The plane fitting error: mean= -43(-0.00) std= 1440(0.05) $H_{nz}=48754.441(1.04)$

H_{nz} : std = 1440(0.03); mean = 48712(0.04); maxErr1 = 2158; maxErr2 = 4131

H_{xy} : std = 3533(0.13); mean = 24769(-0.12); maxErr1 = 6762; maxErr2 = 6470

H_x Rec: std = 1354(0.05); mean = 28108(-0.00); maxErr1 = 3953; maxErr2 = 3771

H_{xyz} Rec : std = 1153(0.02); mean = 56263(0.03); maxErr1 = 2612; maxErr2 = 2951



4_StandPlane

e=0.308 c=(1681,3694)=(0.06,0.13)*Hnxy norm

e=0.000 c=(-0,0)=(-0.00,0.00)*Hnxy norm

The ellipse fitting error(First): mean= -456(-0.02) std= 12346(0.44)

The ellipse fitting error(Second): mean= -3(-0.00) std= 77(0.00)

The plane fitting error: mean= -292(-0.01) std= 4150(0.15) Hnz= 59223.432(1.27)

Hb perfect method: remove plane fitting error bigger than std*0.80

2476(0.85) data remained

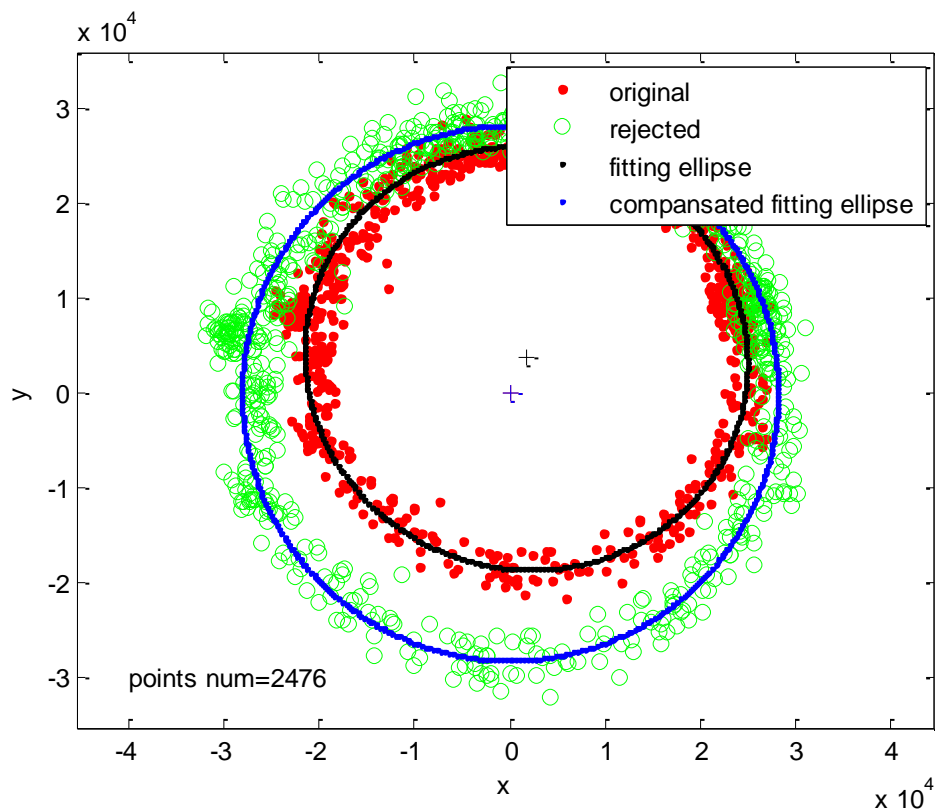
The plane fitting error: mean= -265(-0.01) std= 3926(0.14) Hnz= 58460.404(1.25)

Hnz: std = 3926(0.08); mean = 58196(0.25); maxErr1 = 5111; maxErr2 = 12139

Hxy: std = 2843(0.10); mean = 23793(-0.15); maxErr1 = 7335; maxErr2 = 10288

Hx Rec: std = 1766(0.06); mean = 28085(-0.00); maxErr1 = 6138; maxErr2 = 8535

Hxyz Rec : std = 3095(0.06); mean = 64687(0.19); maxErr1 = 4960; maxErr2 = 10031



6S 刚校准

e=0.288 c=(6377,4474)=(0.23,0.16)*Hnxy norm

e=0.000 c=(0,-0)=(0.00,-0.00)*Hnxy norm

The ellipse fitting error(First): mean= 164(0.01) std= 11570(0.41)

The ellipse fitting error(Second): mean= 1(0.00) std= 73(0.00)

The plane fitting error: mean= -146(-0.01) std= 2963(0.11) Hnz= 60181.741(1.29)

Hb perfect method: remove plane fitting error bigger than std*0.80

1165(0.78) data remained

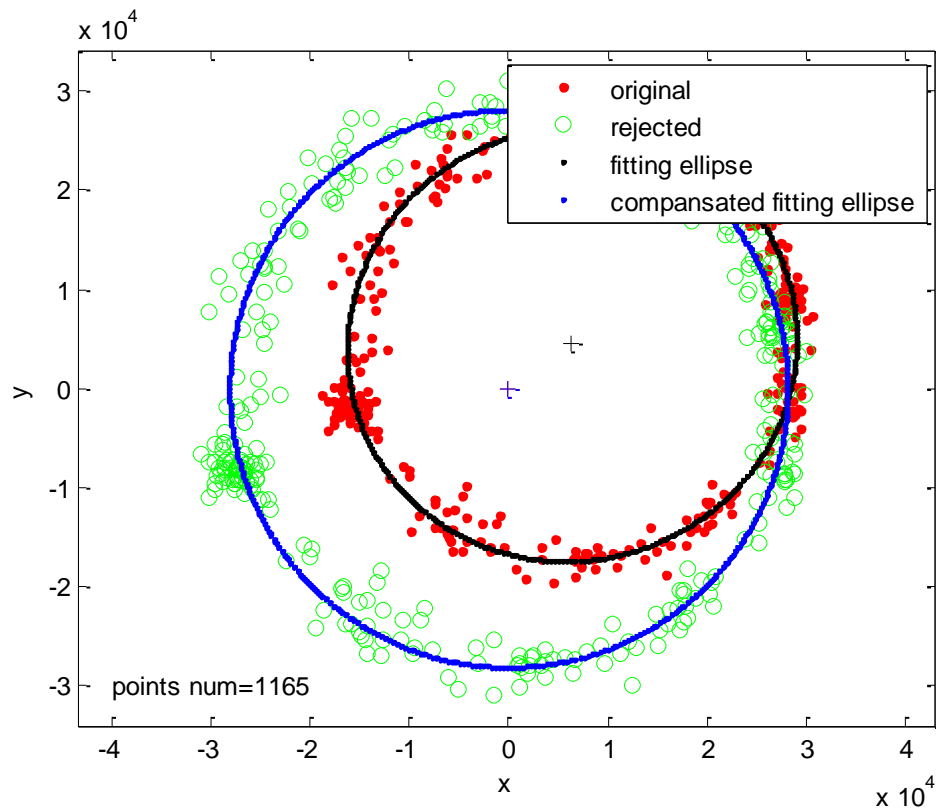
The plane fitting error: mean= -92(-0.00) std= 2318(0.08) Hnz= 58754.594(1.26)

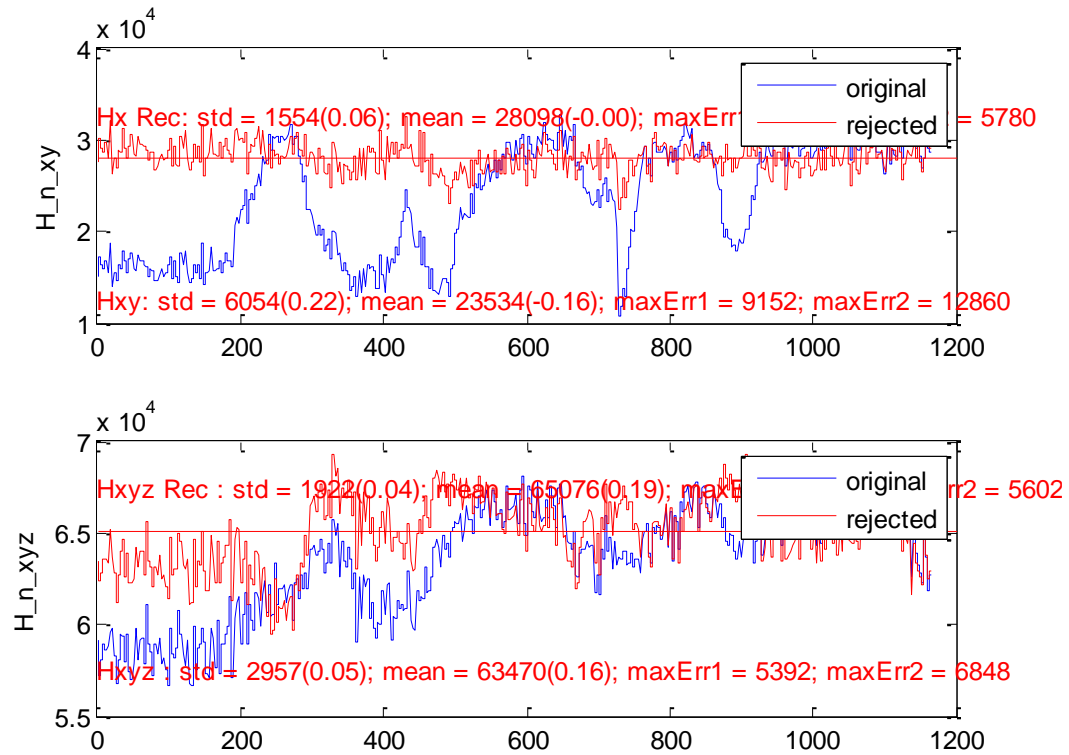
Hnz: std = 2318(0.05); mean = 58663(0.26); maxErr1 = 4561; maxErr2 = 6348

Hxy: std = 6054(0.22); mean = 23534(-0.16); maxErr1 = 9152; maxErr2 = 12860

Hx Rec: std = 1554(0.06); mean = 28098(-0.00); maxErr1 = 4387; maxErr2 = 5780

Hxyz Rec : std = 1922(0.04); mean = 65076(0.19); maxErr1 = 4265; maxErr2 = 5602





7S 刚校准

$e=0.159$ $c=(-637,2791)=(-0.02,0.10)*H_{nxy}$ norm

$e=0.000$ $c=(0,0)=(0.00,0.00)*H_{nxy}$ norm

The ellipse fitting error(First): mean= -216(-0.01) std= 12314(0.44)

The ellipse fitting error(Second): mean= -1(-0.00) std= 70(0.00)

The plane fitting error: mean= -26(-0.00) std= 1121(0.04) Hnz= 47551.430(1.02)

Hb perfect method: remove plane fitting error bigger than std*0.80

1088(0.81) data remained

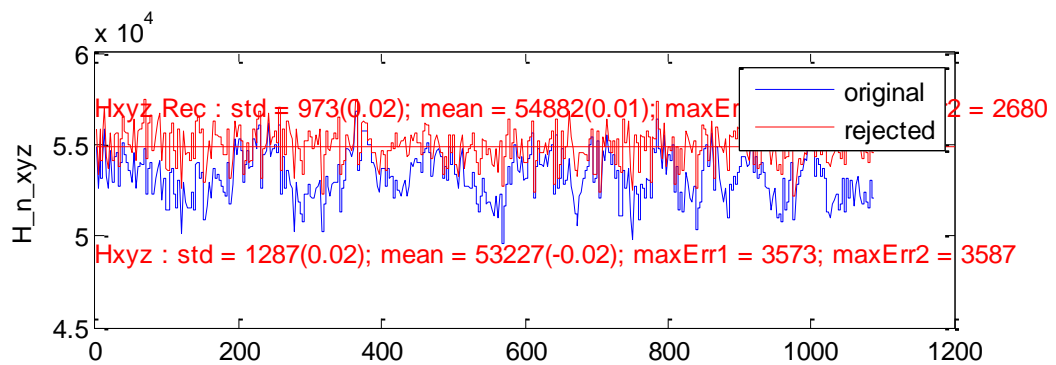
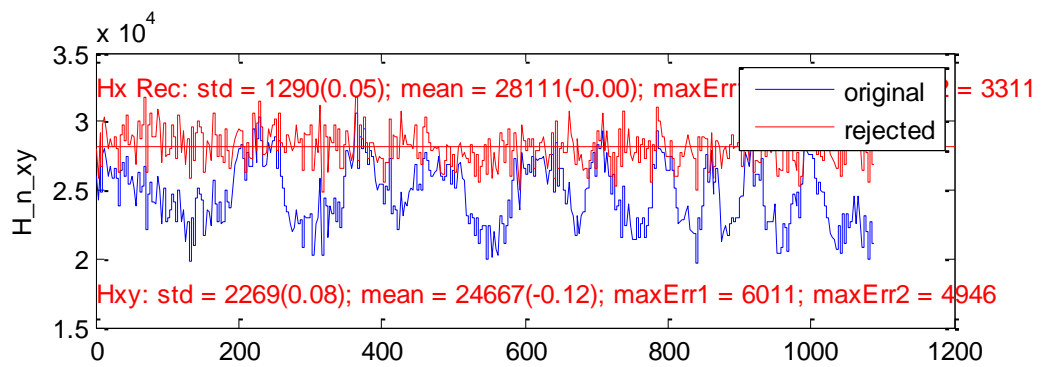
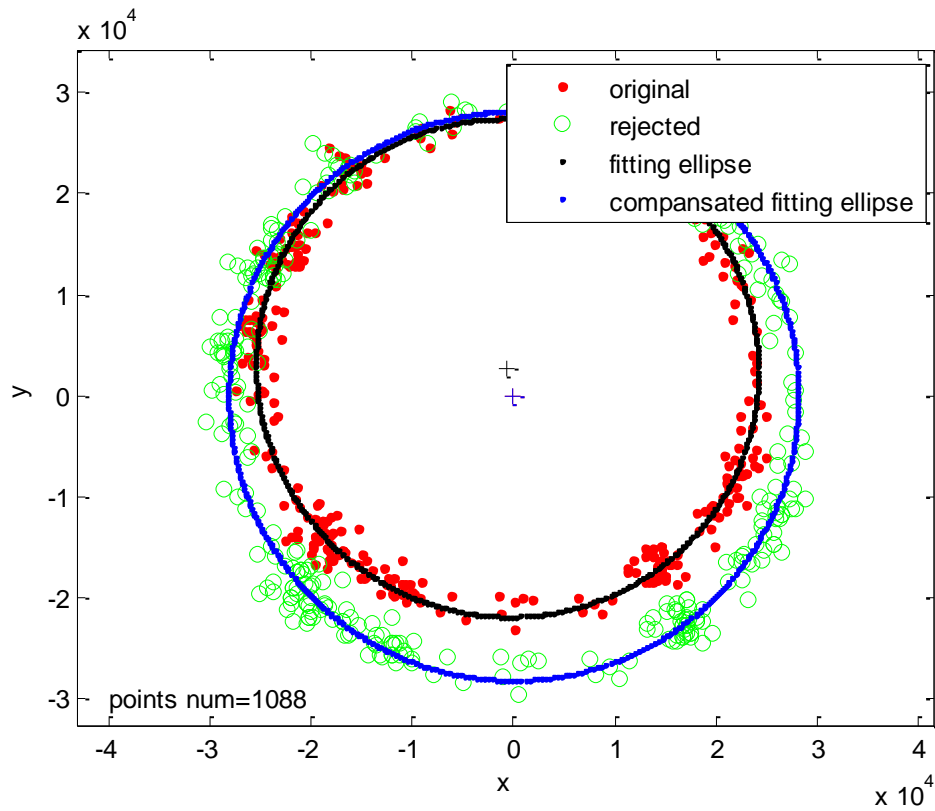
The plane fitting error: mean= -15(-0.00) std= 836(0.03) Hnz= 47136.212(1.01)

Hnz: std = 836(0.02); mean = 47121(0.01); maxErr1 = 1348; maxErr2 = 3214

Hxy: std = 2269(0.08); mean = 24667(-0.12); maxErr1 = 6011; maxErr2 = 4946

Hx Rec: std = 1290(0.05); mean = 28111(-0.00); maxErr1 = 3722; maxErr2 = 3311

Hxyz Rec : std = 973(0.02); mean = 54882(0.01); maxErr1 = 2555; maxErr2 = 2680



7 刚校准-空中准平面旋转

$e=0.213$ $c=(128,4323)=(0.00,0.15)*H_{nxy}$ norm

$e=0.000$ $c=(-0,-0)=(-0.00,-0.00)*H_{nxy}$ norm

The ellipse fitting error(First): mean= 24(0.00) std= 11855(0.42)

The ellipse fitting error(Second): mean= 0(0.00) std= 70(0.00)

The plane fitting error: mean= -46(-0.00) std= 1502(0.05) $H_{nz}=49455.273(1.06)$

Hb perfect method: remove plane fitting error bigger than $std*0.80$

888(0.80) data remained

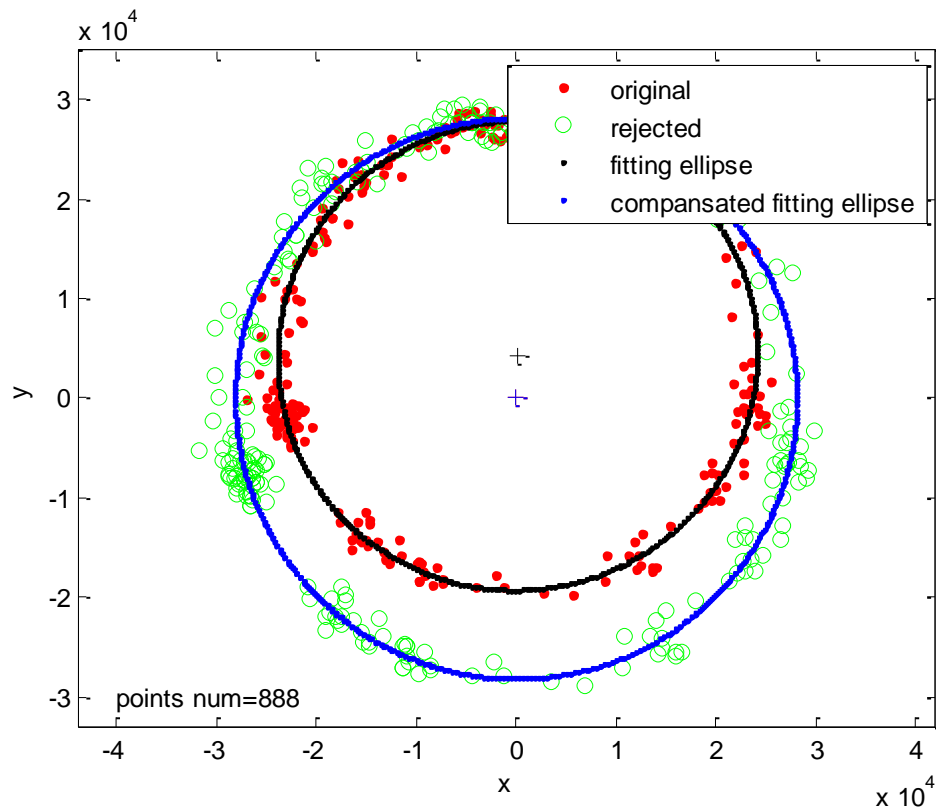
The plane fitting error: mean= -27(-0.00) std= 1159(0.04) $H_{nz}=48955.184(1.05)$

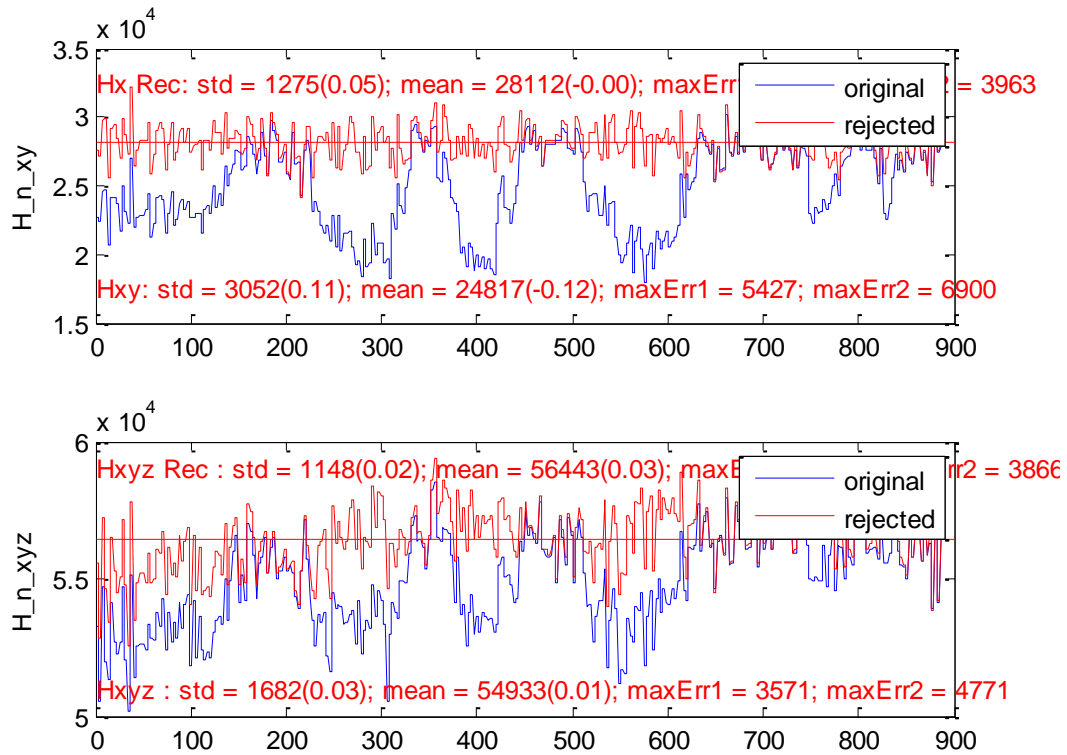
H_{nz} : std = 1159(0.02); mean = 48928(0.05); maxErr1 = 1912; maxErr2 = 3993

H_{xy} : std = 3052(0.11); mean = 24817(-0.12); maxErr1 = 5427; maxErr2 = 6900

H_x Rec: std = 1275(0.05); mean = 28112(-0.00); maxErr1 = 4052; maxErr2 = 3963

H_{xyz} Rec : std = 1148(0.02); mean = 56443(0.03); maxErr1 = 2944; maxErr2 = 3866





8_1 刚校准

$$e=0.140 \quad c=(-972,3072)=(-0.03,0.11)*H_{nxy} \text{ norm}$$

$$e=0.000 \quad c=(0,0)=(0.00,0.00)*H_{nxy} \text{ norm}$$

The ellipse fitting error(First): mean= -310(-0.01) std= 12288(0.44)

The ellipse fitting error(Second): mean= -2(-0.00) std= 72(0.00)

The plane fitting error: mean= -27(-0.00) std= 1156(0.04) Hnz= 50232.092(1.07)

Hb perfect method: remove plane fitting error bigger than std*0.80

1538(0.81) data remained

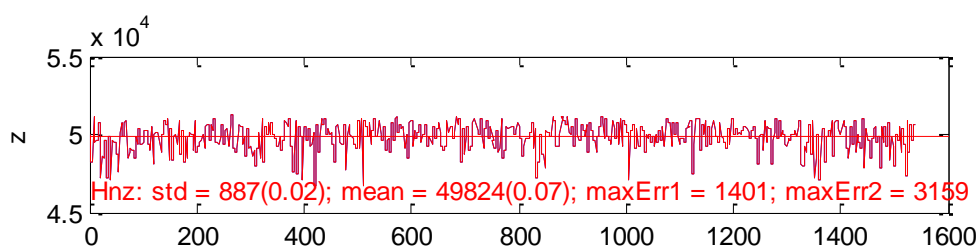
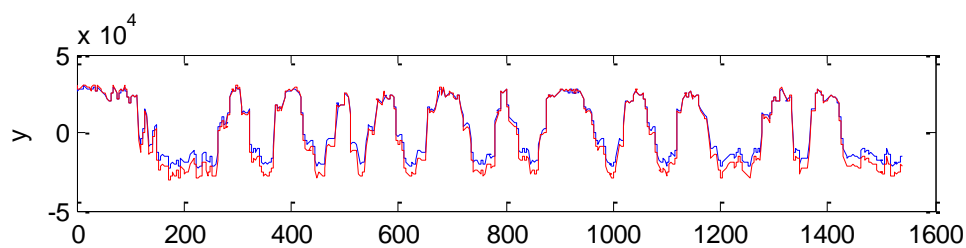
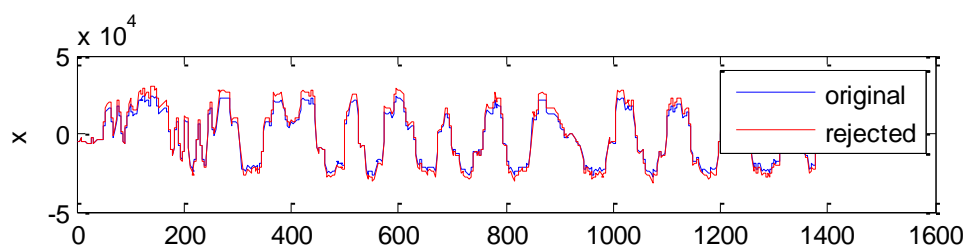
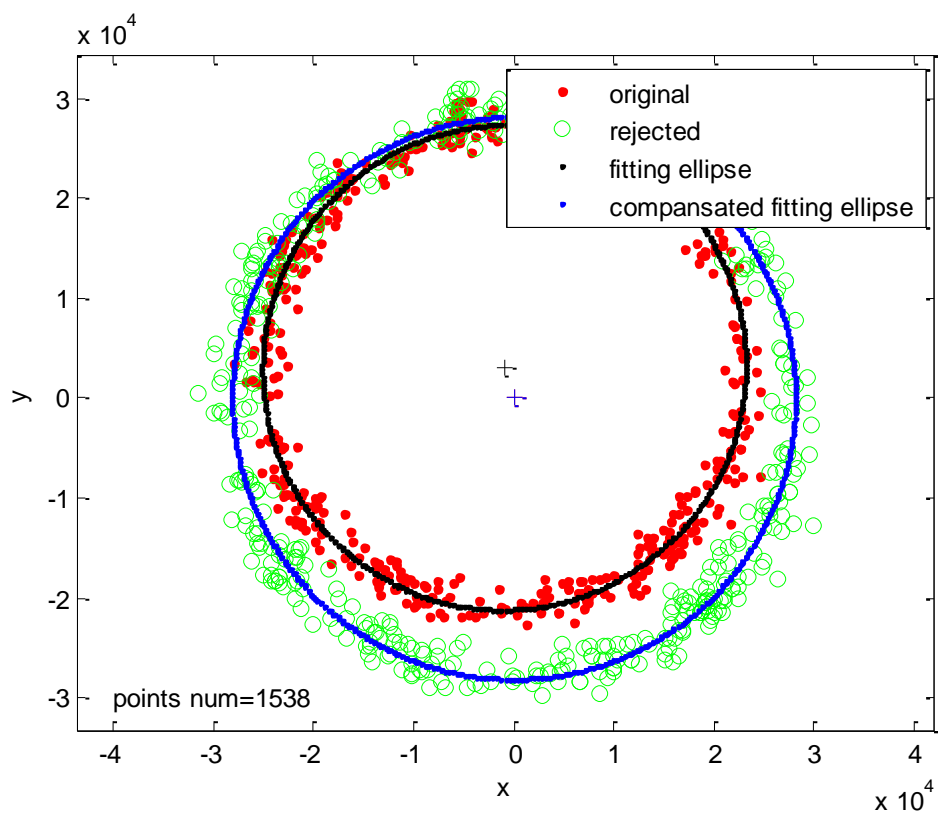
The plane fitting error: mean= -16(-0.00) std= 887(0.03) Hnz= 49839.351(1.07)

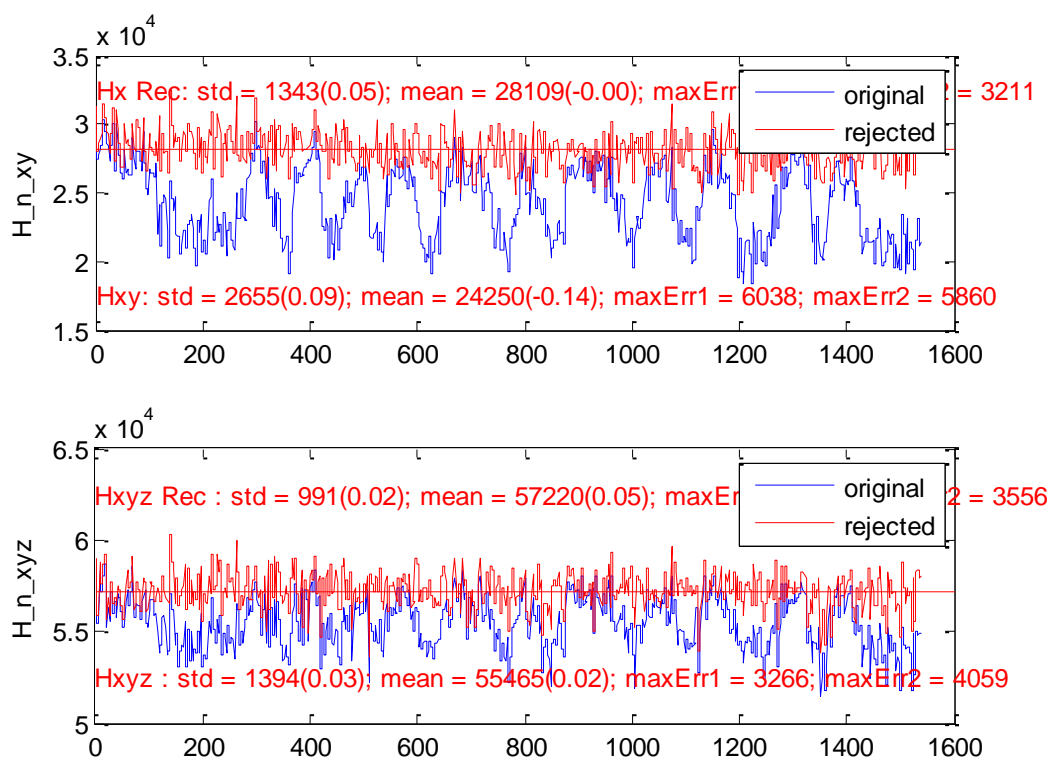
Hnz: std = 887(0.02); mean = 49824(**0.07**); maxErr1 = 1401; maxErr2 = 3159

Hxy: std = 2655(0.09); mean = 24250(-0.14); maxErr1 = 6038; maxErr2 = 5860

Hx Rec: std = 1343(0.05); mean = 28109(-0.00); maxErr1 = 4421; maxErr2 = 3211

Hxyz Rec : std = 991(0.02); mean = 57220(0.05); maxErr1 = 3140; maxErr2 = 3556





8_A 消磁-未重新校准

$e=0.159$ $c=(-7027,-3688)=(-0.25,-0.13)*H_{nxy} \text{ norm}$

$e=0.000$ $c=(0,0)=(0.00,-0.00)*H_{nxy} \text{ norm}$

The ellipse fitting error(First): mean= -189(-0.01) std= 12743(0.45)

The ellipse fitting error(Second): mean= -1(-0.00) std= 71(0.00)

The plane fitting error: mean= -57(-0.00) std= 1760(0.06) $H_{nz}= 54007.957(1.16)$

Hb perfect method: remove plane fitting error bigger than $\text{std} \times 0.80$

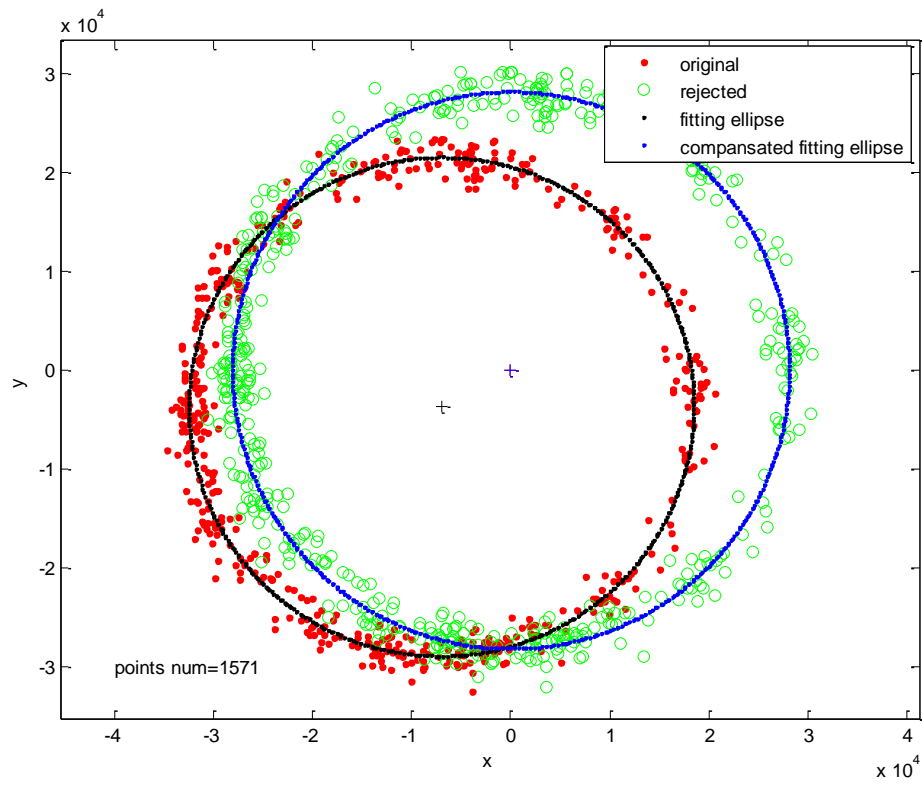
1571(0.84) data remained

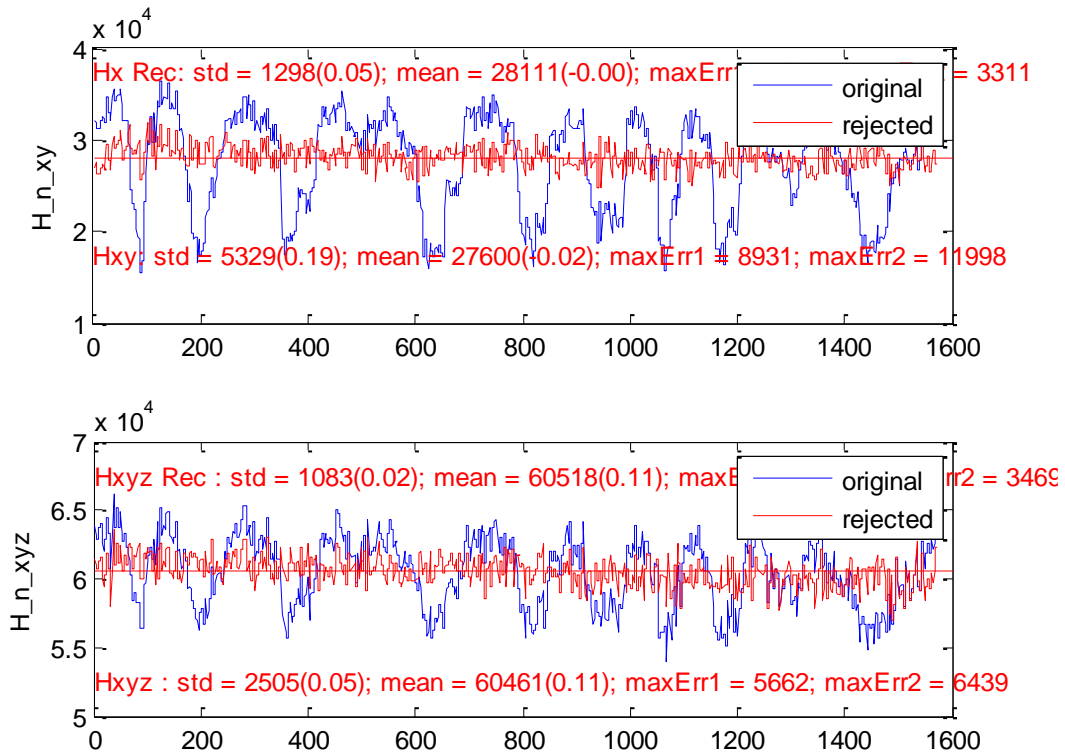
The plane fitting error: mean= -19(-0.00) std= 998(0.04) $H_{nz}= 53597.484(1.15)$

H_{nz} : std = 998(0.02); mean = 53579(**0.15**); maxErr1 = 2289; maxErr2 = 3169

H_{xy} : std = 5329(0.19); mean = 27600(-0.02); maxErr1 = 8931; maxErr2 = 11998

Hx Rec: std = 1298(0.05); mean = 28111(-0.00); maxErr1 = 4165; maxErr2 = 3311
Hxyz Rec : std = 1083(0.02); mean = 60518(0.11); maxErr1 = 3030; maxErr2 = 3469





8_B 磁铁靠近磁化 1 分钟后拿开

$e=0.326$ $c=(23053, 6349)=(0.82, 0.23)*H_{nxy}$ norm

$e=0.000$ $c=(0, -0)=(0.00, -0.00)*H_{nxy}$ norm

The ellipse fitting error(First): mean= -31(-0.00) std= 12514(0.44)

The ellipse fitting error(Second): mean= -0(-0.00) std= 73(0.00)

The plane fitting error: mean= -155(-0.01) std= 1741(0.06) $H_{nz}=19715.678(0.42)$

Hb perfect method: remove plane fitting error bigger than std*0.80

1625(0.82) data remained

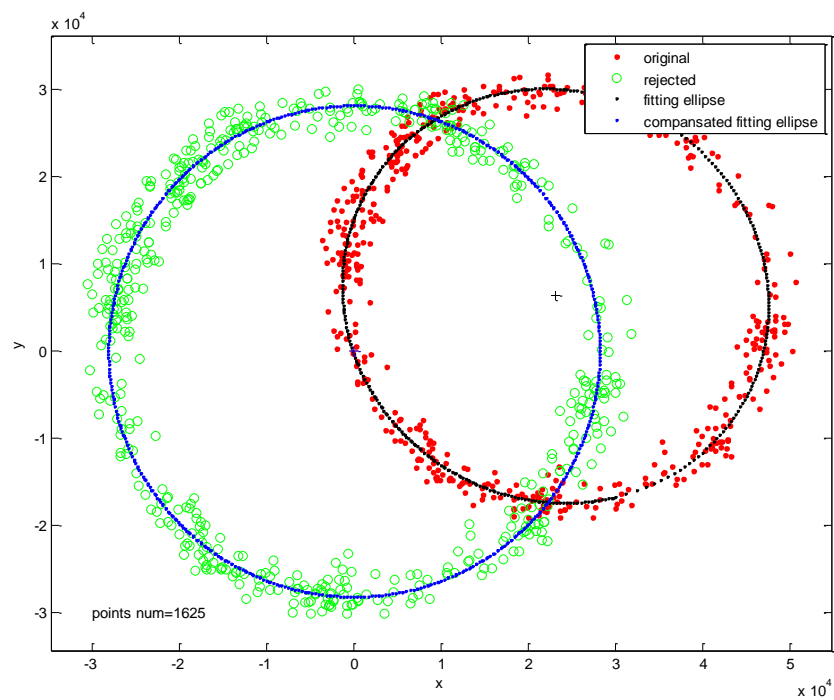
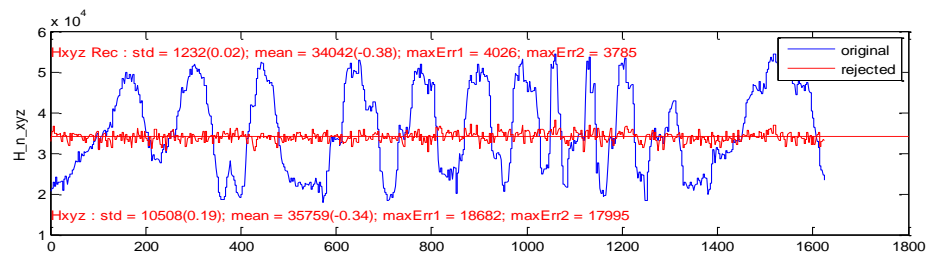
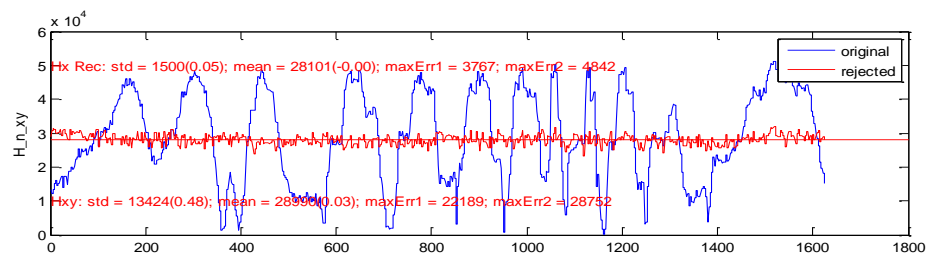
The plane fitting error: mean= -102(-0.00) std= 1401(0.05) $H_{nz}=19247.417(0.41)$

H_{nz} : std = 1401(0.03); mean = 19145(**-0.59**); maxErr1 = 2318; maxErr2 = 4237

Hxy : std = 13424(0.48); mean = 28990(0.03); maxErr1 = 22189; maxErr2 = 28752

Hx Rec: std = 1500(0.05); mean = 28101(-0.00); maxErr1 = 3767; maxErr2 = 4842

$Hxyz$ Rec : std = 1232(0.02); mean = 34042(-0.38); maxErr1 = 4026; maxErr2 = 3785



8_C 再次消磁