

# Analysis For Eureka

## v3-3 part 1

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## 1 100 cases - part 1

Table 1: The One Hundred Cases to 20171108

No	Inst	Cline	Reached	Reverse	Dir	Why
	cu	1	3112444	3112530		
	CF	-1	2671876	2672000		
	v9	1	2814592	2814693		
	l9	-1	2956350	2956423		
	v9	-1	2398644	2398700		
	y9	1	2677917	2678036		
	al	-1	3041927	3042014		
	TA	1	2789827	2789950		
	c9	1	2358675	2358850		
	c9	1	2712530	2712700		
	m9	-1	2791032	2791106		
	jm	1	3109106	3109281		
	ni	1	3107248	3107390		
	zn	-1	2524765	2525108		
	FG	1	2696426	2696550		
	ag	1	2939335	2939520		
	SR	-1	2941952	2942117		
	v9	1	2324577	2324728		
	zn	1	2424556	2424652		
	au	-1	2316007	2316130		

## 2 Detail - part 1

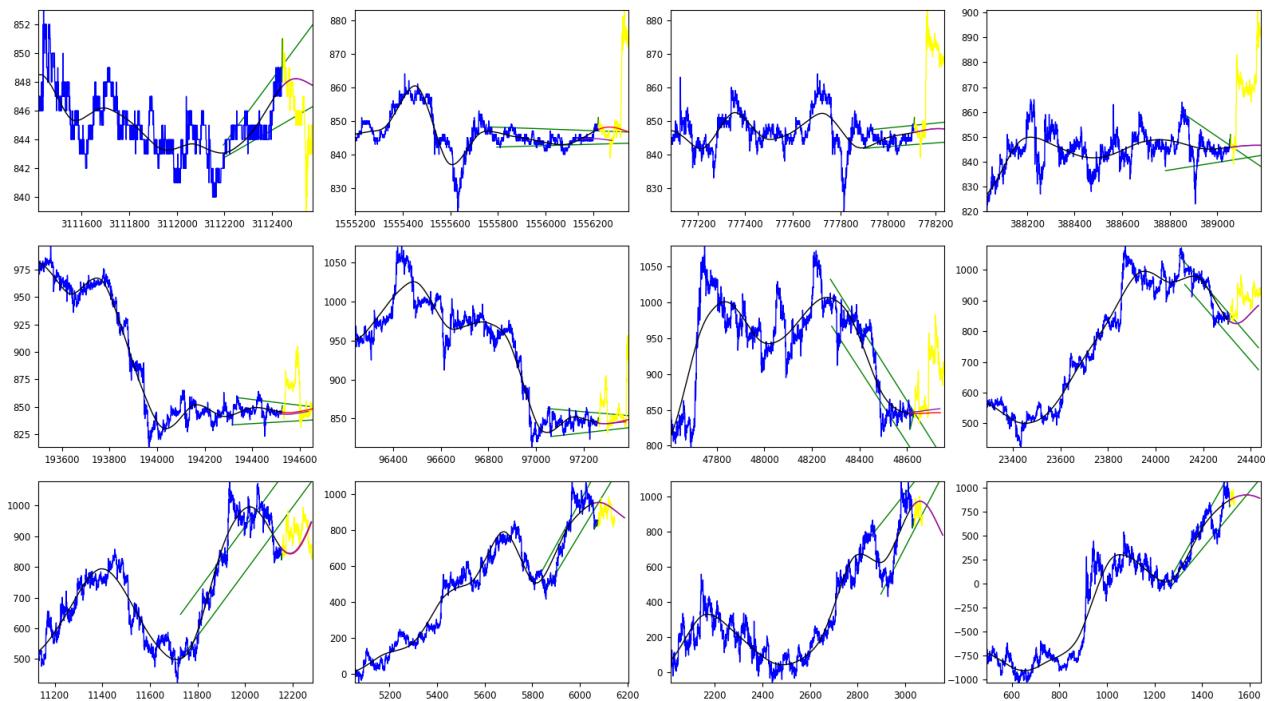
### 2.1 cu 3112444 3112530

3112444: ptype: 6[0] 4[1,2] 2[3] 5[4,5] 1[6] 7[7,8] 4[9] 6[10] 4[11]

dir: 1[0,1,2,3] -1[4,5] 0[6] -1[7,8] 1[9,10,11]

otp: 1[0,1,2,3] 0[4,5] 1[6] 0[7] -1[8,9] 0[10,11]

cshape: 3[0,1] 5[2] 3[3,4,5] 1[6,7,8,9,10,11]

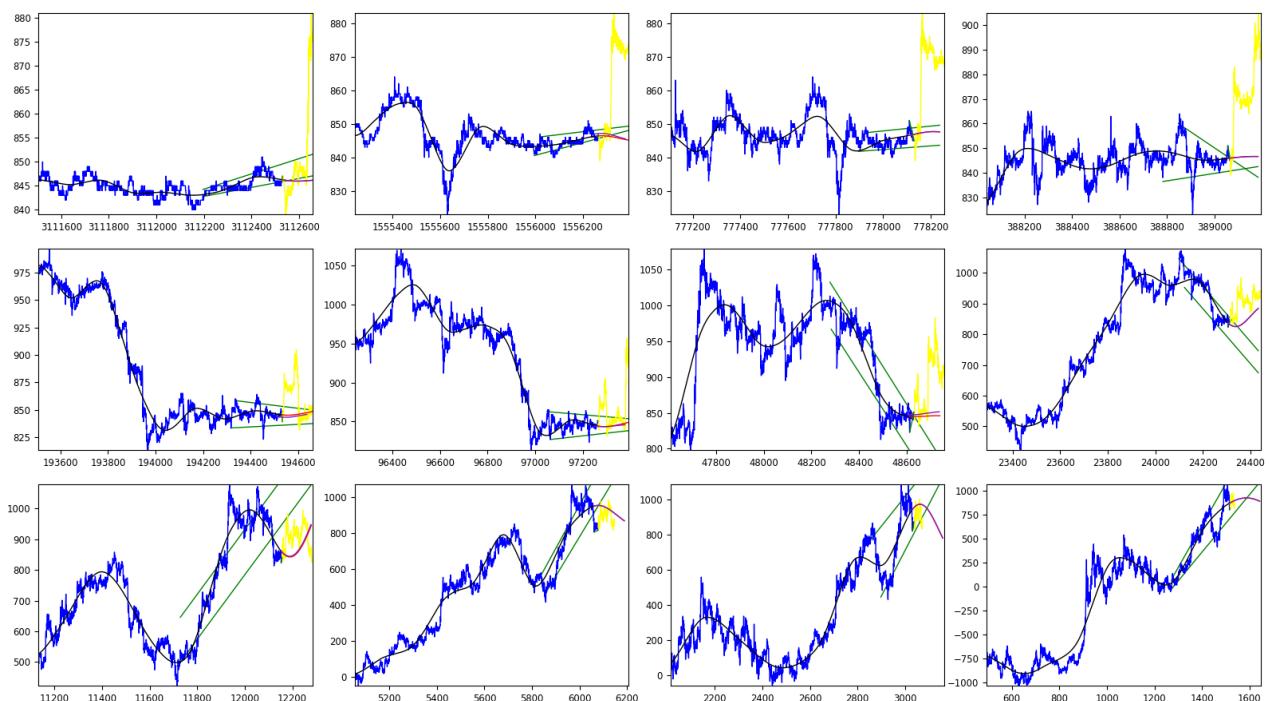


3112530: ptype: 5[0] 3[1] 4[2] 2[3,4] 5[5] 1[6] 7[7,8] 4[9] 6[10] 4[11]

dir: -1[0,1] 1[2,3,4] -1[5] 0[6] -1[7,8] 1[9,10,11]

otp: 0[0,1,2] 1[3] 0[4,5] 1[6] 0[7] -1[8,9] 0[10,11]

cshape: 5[0] 3[1] 5[2] 3[3,4,5] 1[6,7,8,9,10,11]



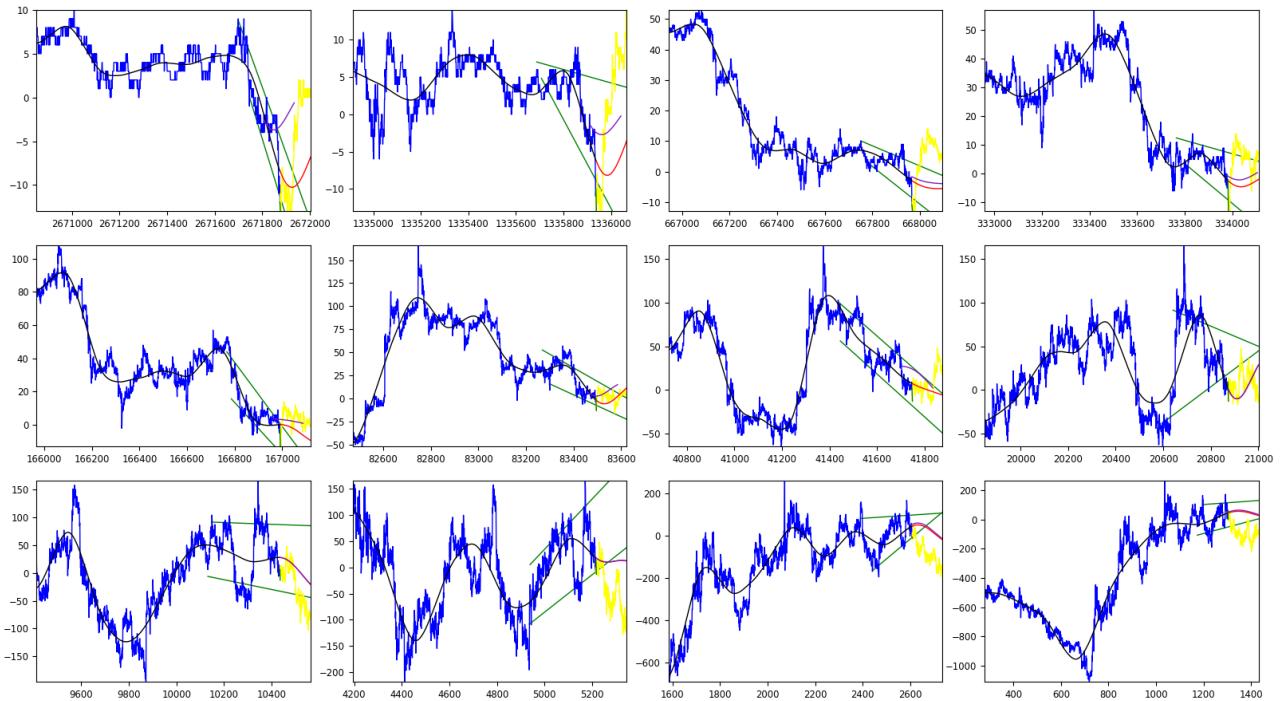
## 2.2 CF 2671876 2672000

2671876: ptype: 7[0,1] 3[2] 7[3] 3[4] 7[5] 3[6] 7[7] 3[8,9] 4[10,11]

dir: -1[0,1,2,3,4,5,6,7,8,9] 1[10,11]

otp: -1[0,1,2,3] 0[4] -1[5] 0[6] -1[7] 0[8] -1[9,10] 0[11]

cshape: 1[0,1] 2[2] 3[3] 1[4] 5[5] 1[6] 3[7,8] 1[9] 3[10,11]

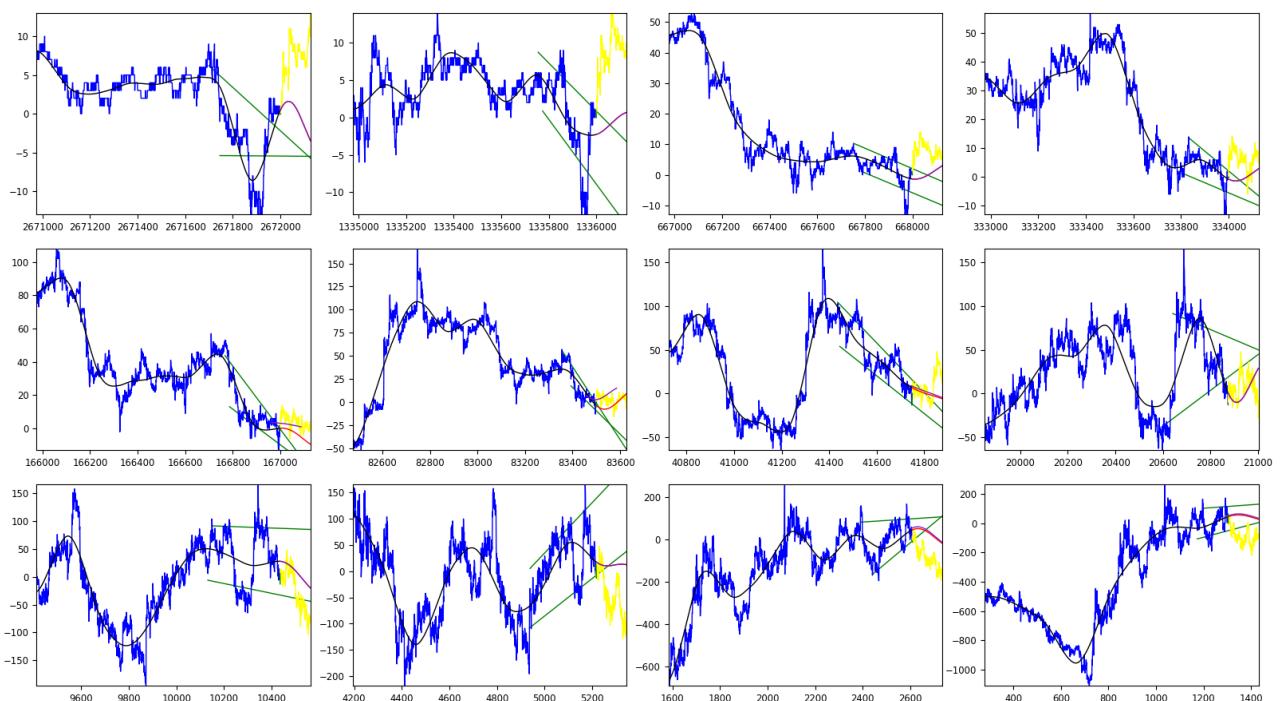


2672000: ptype: 6[0] 2[1,2] 5[3] 3[4] 7[5] 3[6] 7[7] 3[8,9] 4[10,11]

dir: 1[0,1,2] -1[3,4,5,6,7,8,9] 1[10,11]

otp: 1[0] 0[1,2,3] 1[4,5] 0[6] -1[7] 0[8,9,10,11]

cshape: 3[0] 5[1] 1[2] 3[3,4] 5[5] 4[6] 3[7,8] 1[9] 3[10,11]



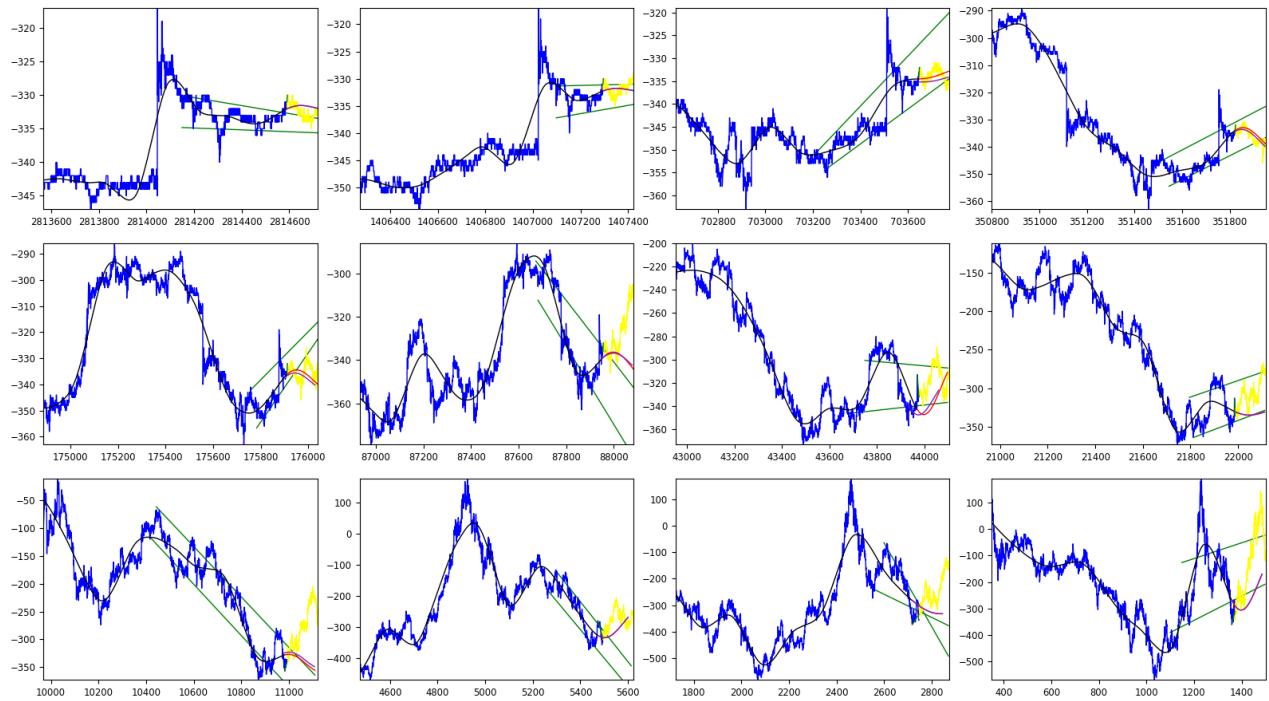
## 2.3 v9 2814592 2814693

2814592: ptype: 4[0,1] 2[2] 6[3,4,5] 7[6] 5[7] 4[8] 7[9] 3[10] 7[11]

dir: 1[0,1,2,3,4,5] -1[6,7] 1[8] -1[9,10,11]

otp: 1[0,1] 0[2] 1[3] 0[4] 1[5] 0[6,7,8,9] -1[10,11]

cshape: 3[0,1] 5[2] 1[3] 5[4] 1[5] 3[6] 1[7,8,9] 3[10] 4[11]

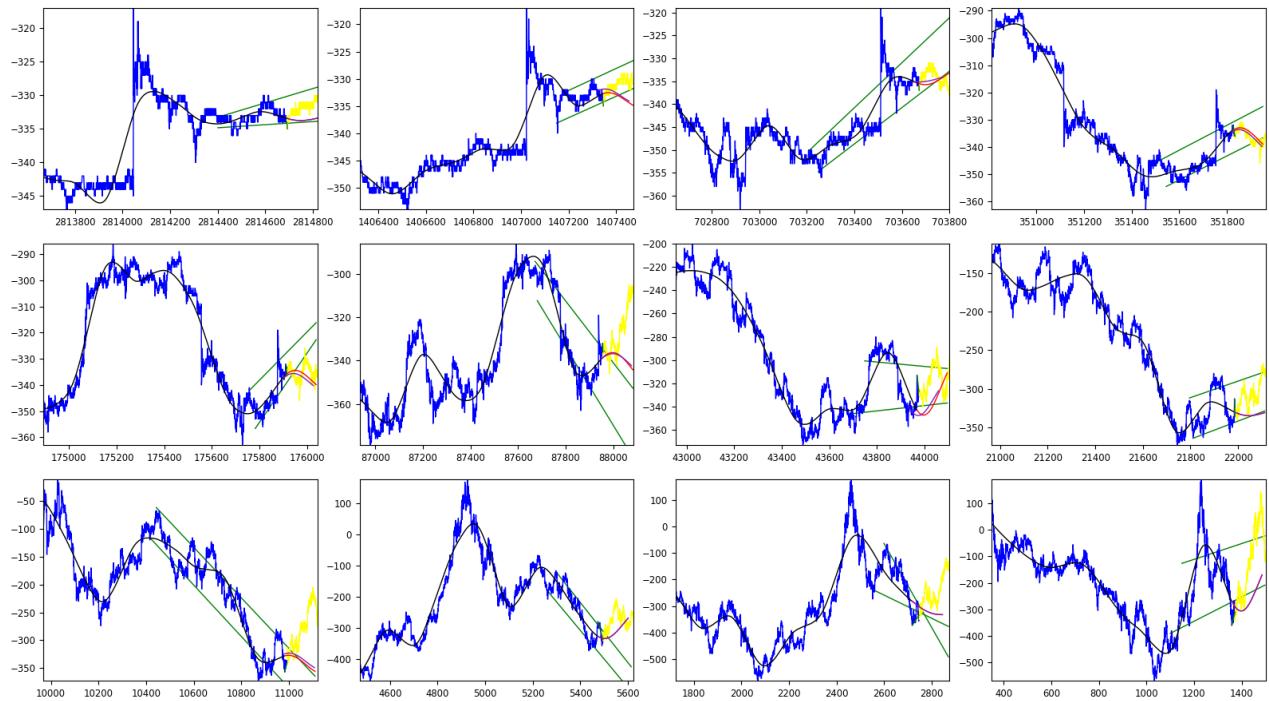


2814693: ptype: 5[0] 4[1] 5[2] 6[3,4,5] 7[6] 5[7] 4[8] 7[9] 3[10] 7[11]

dir: -1[0] 1[1] -1[2] 1[3,4,5] -1[6,7] 1[8] -1[9,10,11]

otp: -1[0,1] 0[2,3,4] 1[5] 0[6,7,8,9] -1[10,11]

cshape: 3[0] 1[1,2,3] 5[4] 1[5] 3[6] 1[7,8,9] 3[10] 4[11]



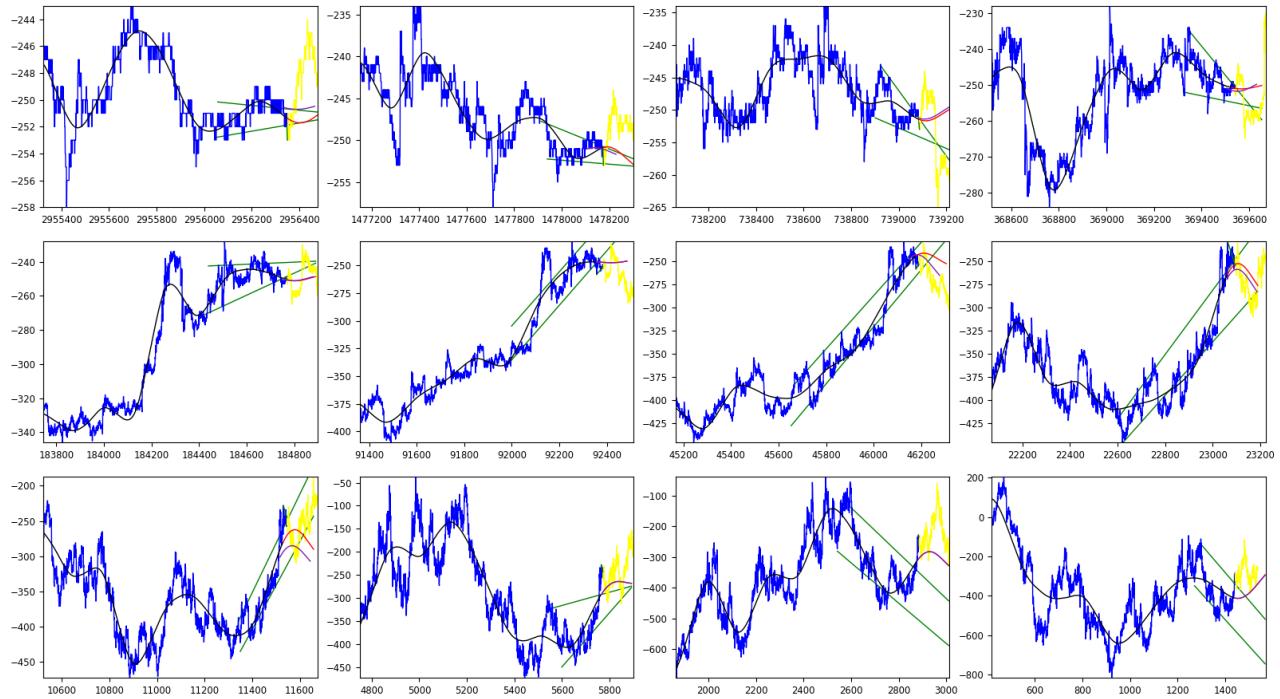
## 2.4 19 2956350 2956423

2956350: ptype: 7[0] 4[1] 5[2,3,4] 2[5] 6[6,7,8] 4[9] 6[10] 2[11]

dir: -1[0] 1[1] -1[2,3,4] 1[5,6,7,8,9,10,11]

otp: -1[0] 0[1,2,3] -1[4,5] 0[6,7,8] 1[9,10,11]

cshape: 1[0] 2[1,2,3] 3[4] 1[5,6,7,8] 3[9] 1[10,11]

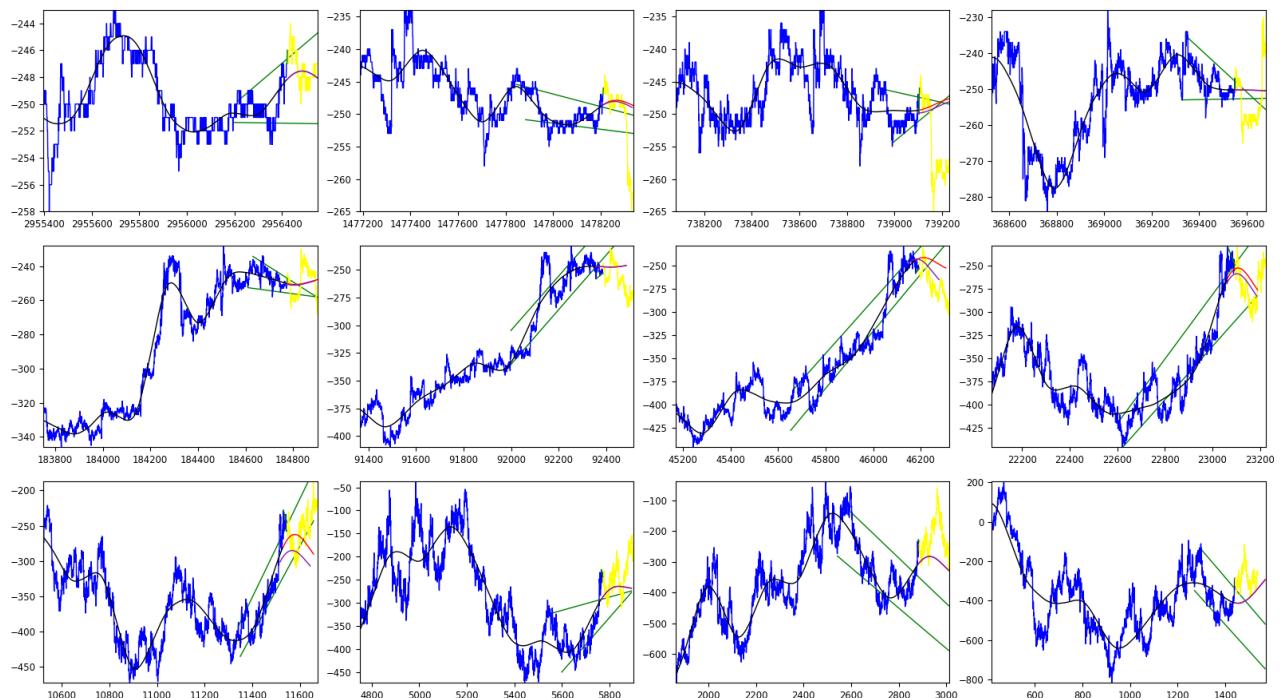


2956423: ptype: 6[0] 4[1] 2[2] 1[3] 5[4] 2[5] 6[6,7,8] 4[9] 6[10] 2[11]

dir: 1[0,1,2] 0[3] -1[4] 1[5,6,7,8,9,10,11]

otp: 1[0,1,2] 0[3] 1[4] -1[5] 0[6] 1[7,8,9,10,11]

cshape: 1[0] 3[1,2] 2[3] 3[4] 1[5,6,7,8] 3[9] 1[10,11]



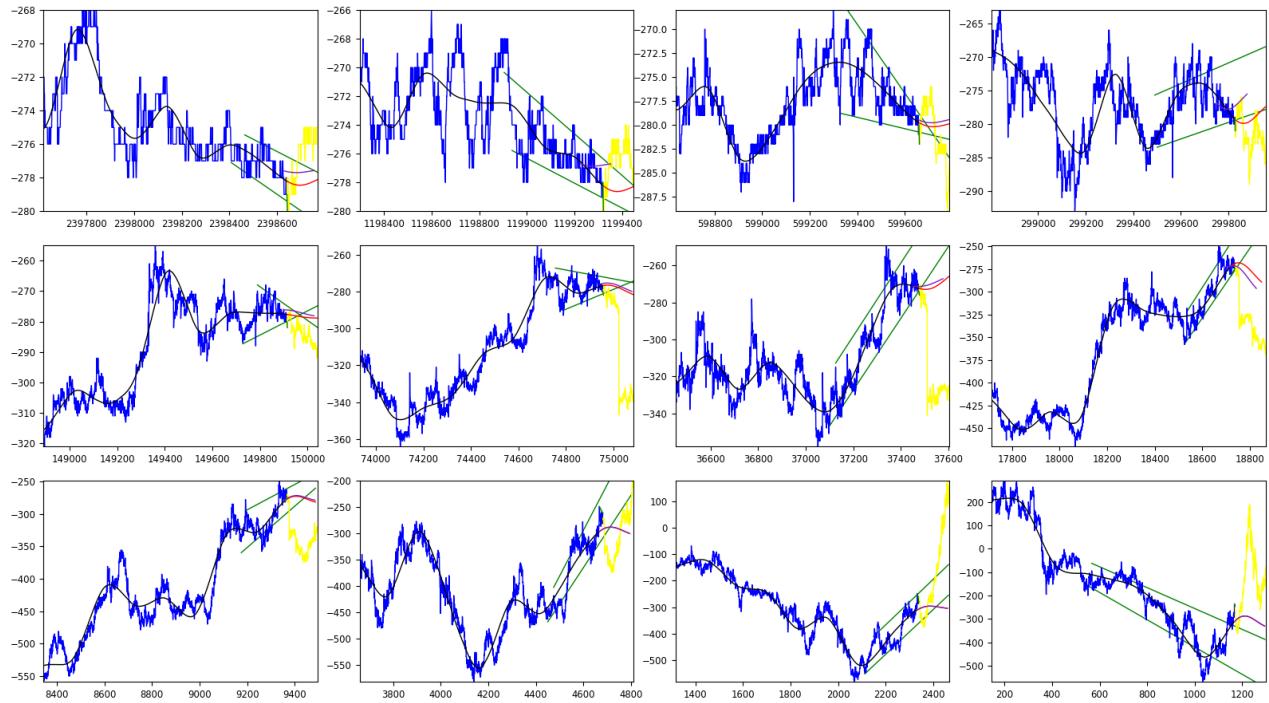
## 2.5 v9 2398644 2398700

2398644: ptype: 5[0,1,2] 7[3] 3[4] 4[5] 5[6] 6[7] 4[8,9,10] 6[11]

dir: -1[0,1,2,3,4] 1[5] -1[6] 1[7,8,9,10,11]

otp: -1[0,1] 0[2] -1[3,4] 0[5] -1[6,7] 0[8,9,10] 1[11]

cshape: 5[0] 3[1] 2[2] 1[3] 3[4,5] 1[6,7] 5[8] 1[9,10] 5[11]

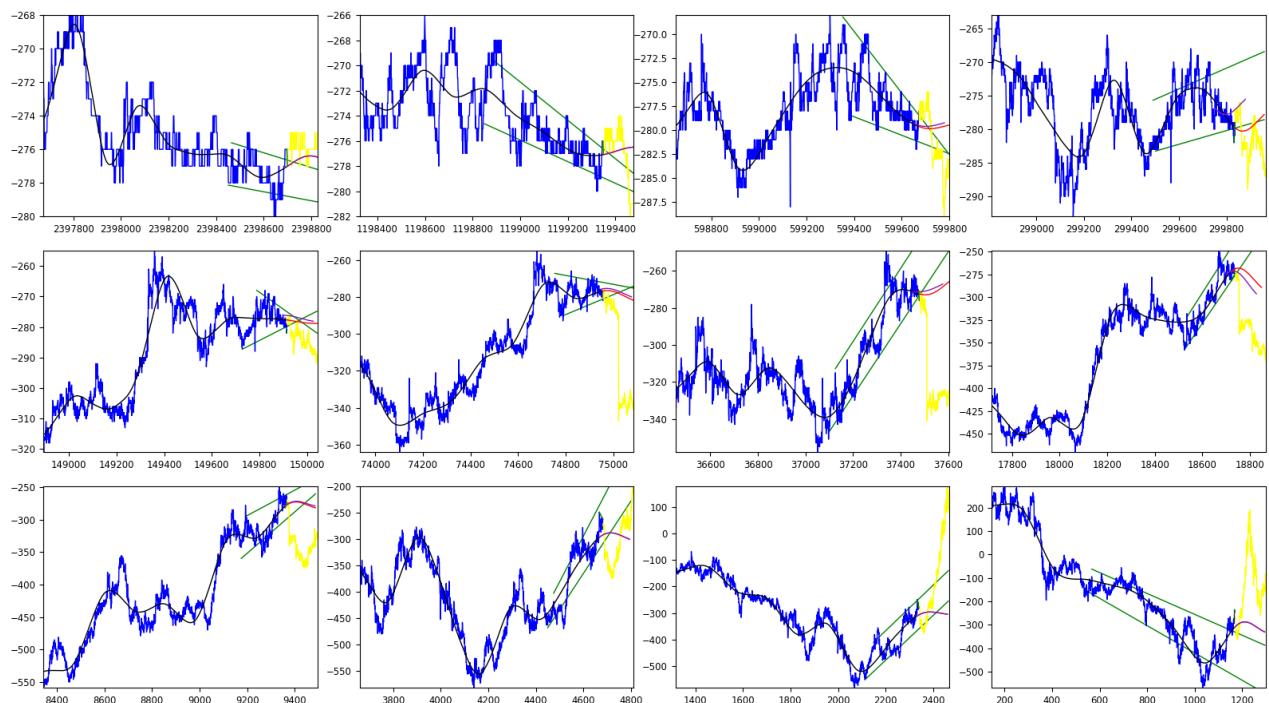


2398700: ptype: 4[0] 2[1] 5[2] 7[3] 3[4] 4[5] 5[6] 6[7] 4[8,9,10] 6[11]

dir: 1[0,1] -1[2,3,4] 1[5] -1[6] 1[7,8,9,10,11]

otp: 0[0,1] 1[2] 0[3,4,5] -1[6,7] 0[8,9,10] 1[11]

cshape: 3[0,1,2] 5[3] 3[4,5] 1[6,7] 5[8] 1[9,10] 5[11]



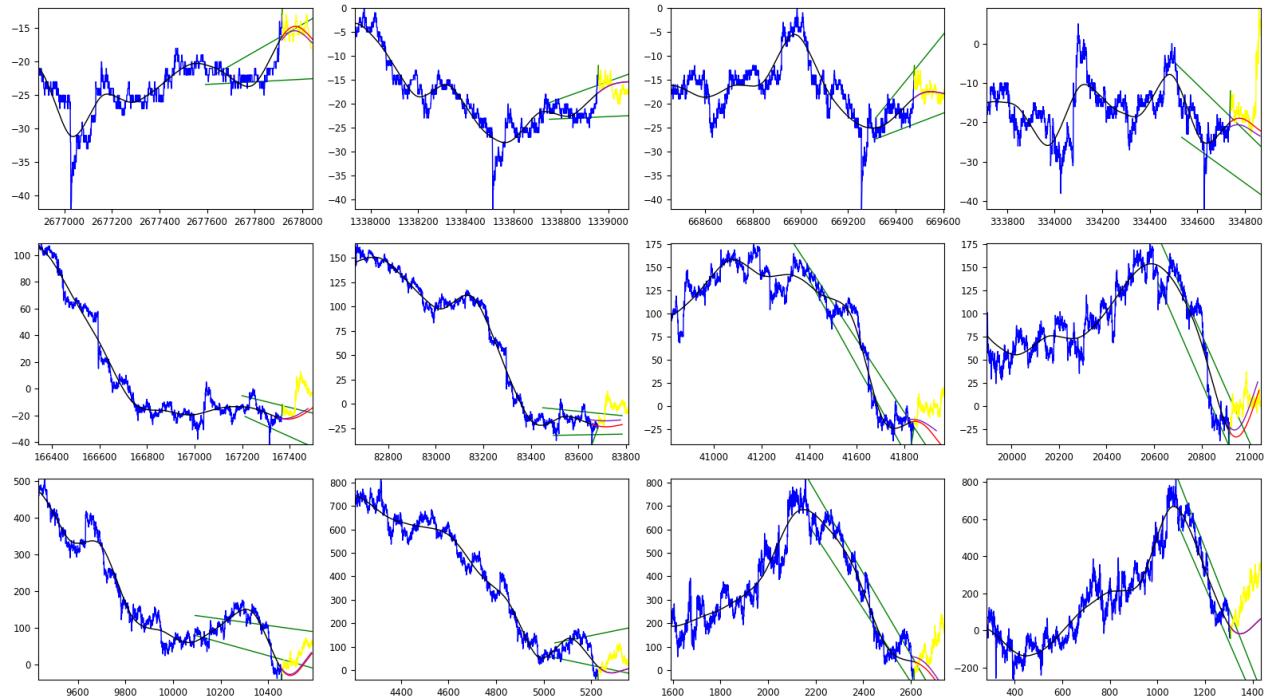
## 2.6 y9 2677917 2678036

2677917: ptype: 6[0] 2[1] 4[2] 6[3] 5[4,5] 4[6] 7[7,8] 5[9] 3[10] 7[11]

dir: 1[0,1,2,3] -1[4,5] 1[6] -1[7,8,9,10,11]

otp: 1[0,1,2,3,4] 0[5] 1[6] 0[7] -1[8,9] 0[10,11]

cshape: 3[0] 2[1] 3[2] 5[3] 3[4,5] 1[6,7] 3[8,9] 1[10,11]

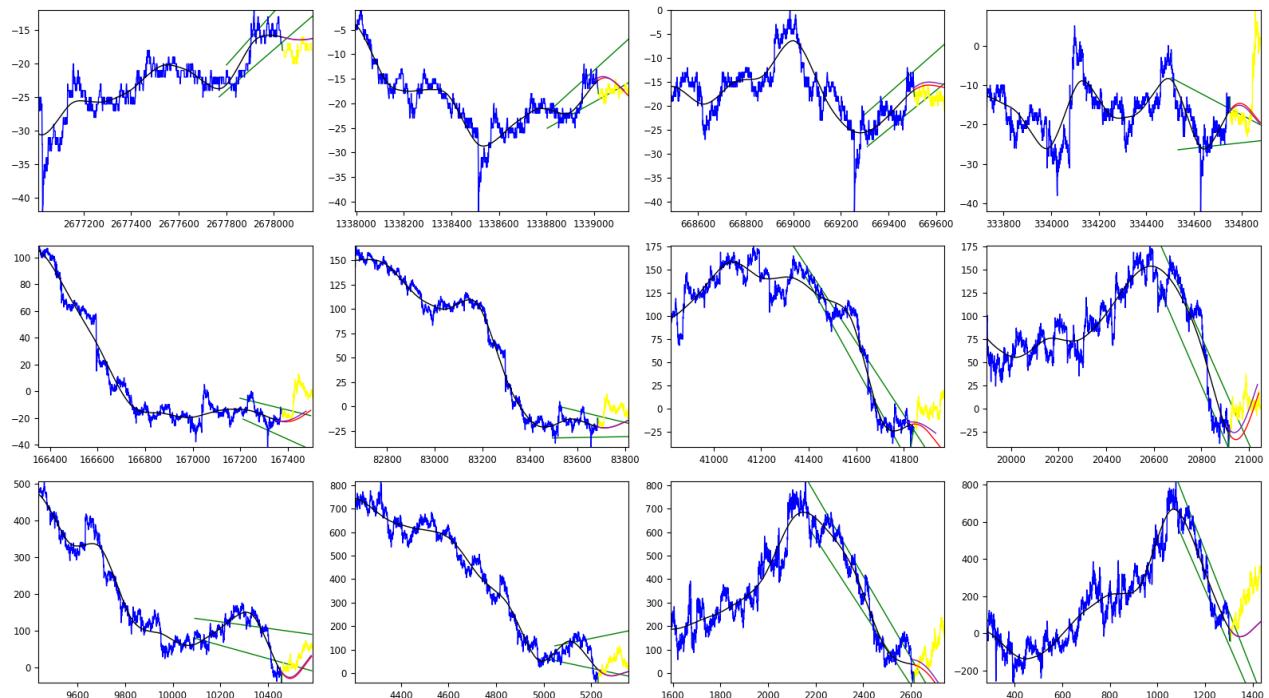


2678036: ptype: 5[0] 6[1] 4[2] 6[3] 5[4,5] 4[6] 7[7,8] 5[9] 3[10] 7[11]

dir: -1[0] 1[1,2,3] -1[4,5] 1[6] -1[7,8,9,10,11]

otp: -1[0] 0[1,2,3,4,5] 1[6] 0[7] -1[8,9] 0[10,11]

cshape: 1[0] 5[1] 1[2,3] 3[4] 2[5] 1[6,7] 3[8,9] 1[10,11]



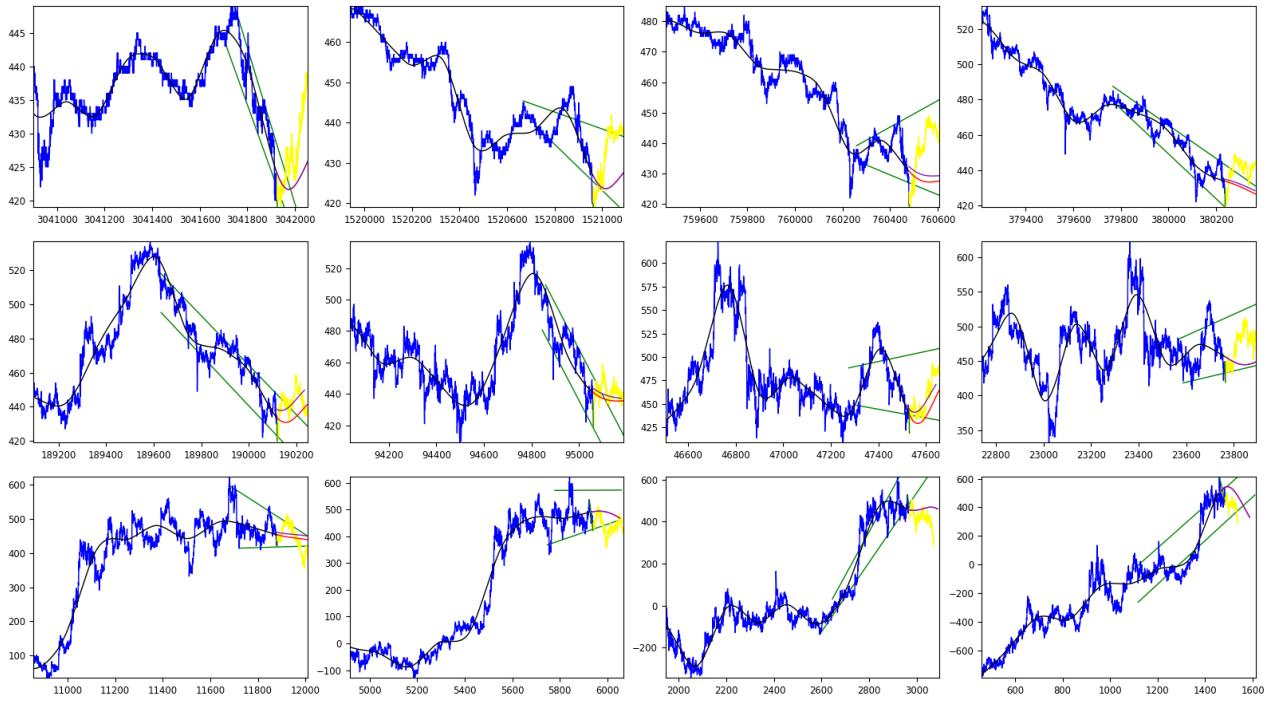
## 2.7 al 3041927 3042014

3041927: ptype: 7[0,1] 5[2] 3[3] 7[4] 3[5] 7[6] 5[7] 3[8] 4[9] 1[10] 6[11]

dir: -1[0,1,2,3,4,5,6,7,8] 1[9] 0[10] 1[11]

otp: -1[0,1,2] 0[3] -1[4] 0[5] -1[6,7] 0[8] -1[9,10] 0[11]

cshape: 1[0] 3[1,2] 5[3] 1[4,5] 2[6,7] 3[8,9] 1[10,11]

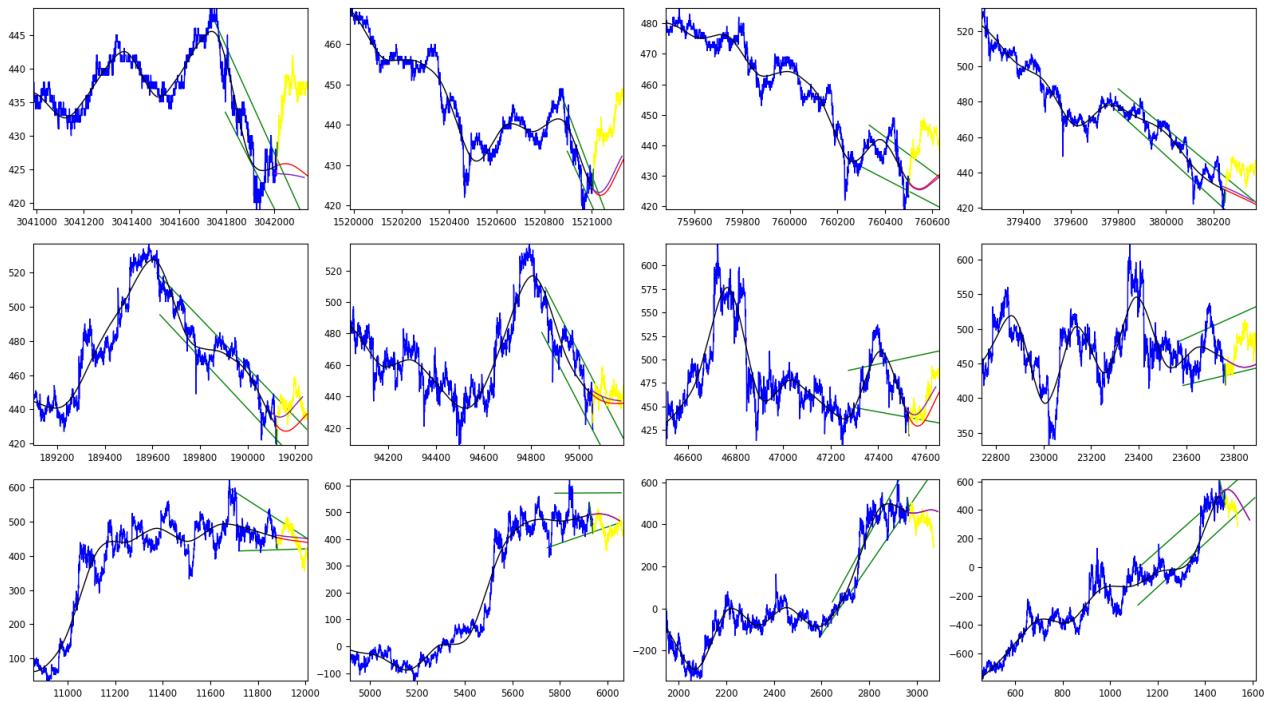


3042014: ptype: 4[0] 7[1,2] 3[3] 7[4] 3[5] 7[6] 5[7] 3[8] 4[9] 1[10] 6[11]

dir: 1[0] -1[1,2,3,4,5,6,7,8] 1[9] 0[10] 1[11]

otp: 1[0,1] 0[2,3,4,5] -1[6,7] 0[8,9] -1[10] 0[11]

cshape: 1[0,1] 3[2] 1[3,4,5] 2[6,7] 3[8,9] 1[10,11]



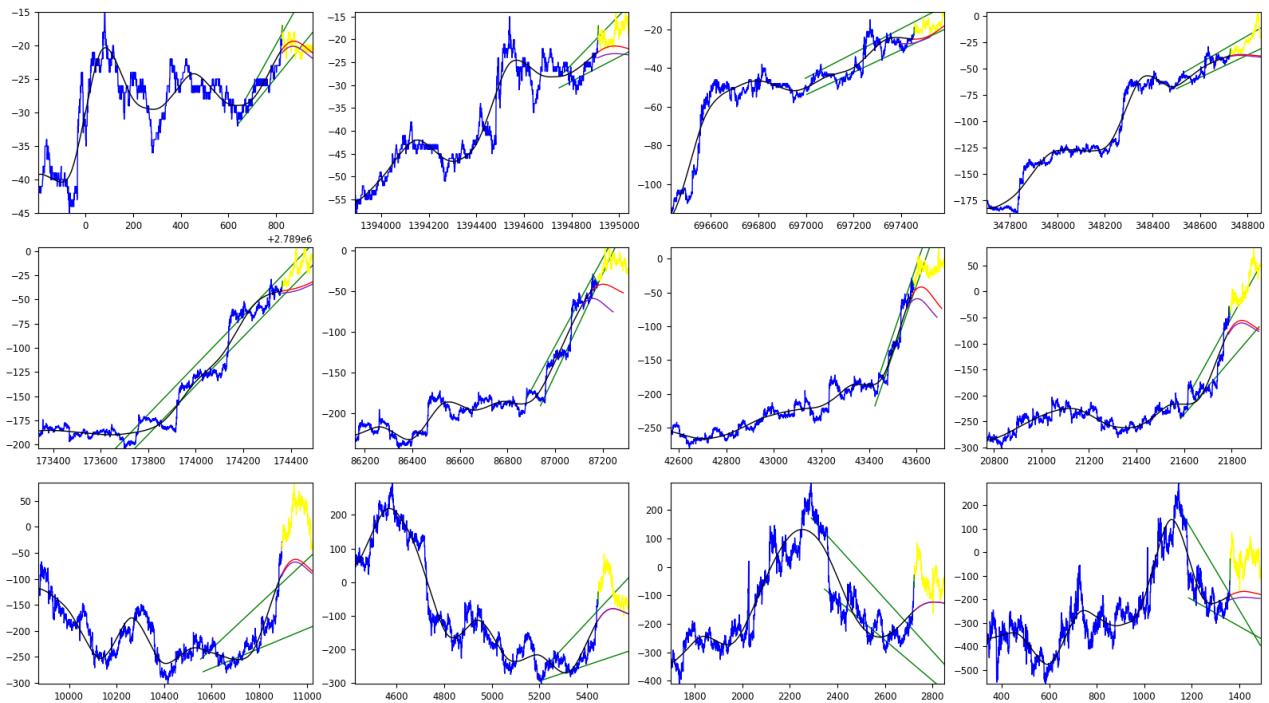
## 2.8 TA 2789827 2789950

2789827: ptype: 6[0] 4[1] 2[2] 4[3] 2[4] 6[5,6,7,8] 4[9,10,11]

dir: 1[0,1,2,3,4,5,6,7,8,9,10,11]

otp: 1[0,1] 0[2] 1[3,4,5,6,7,8,9,10,11]

cshape: 1[0] 3[1] 1[2,3,4,5,6,7] 3[8,9] 5[10] 3[11]

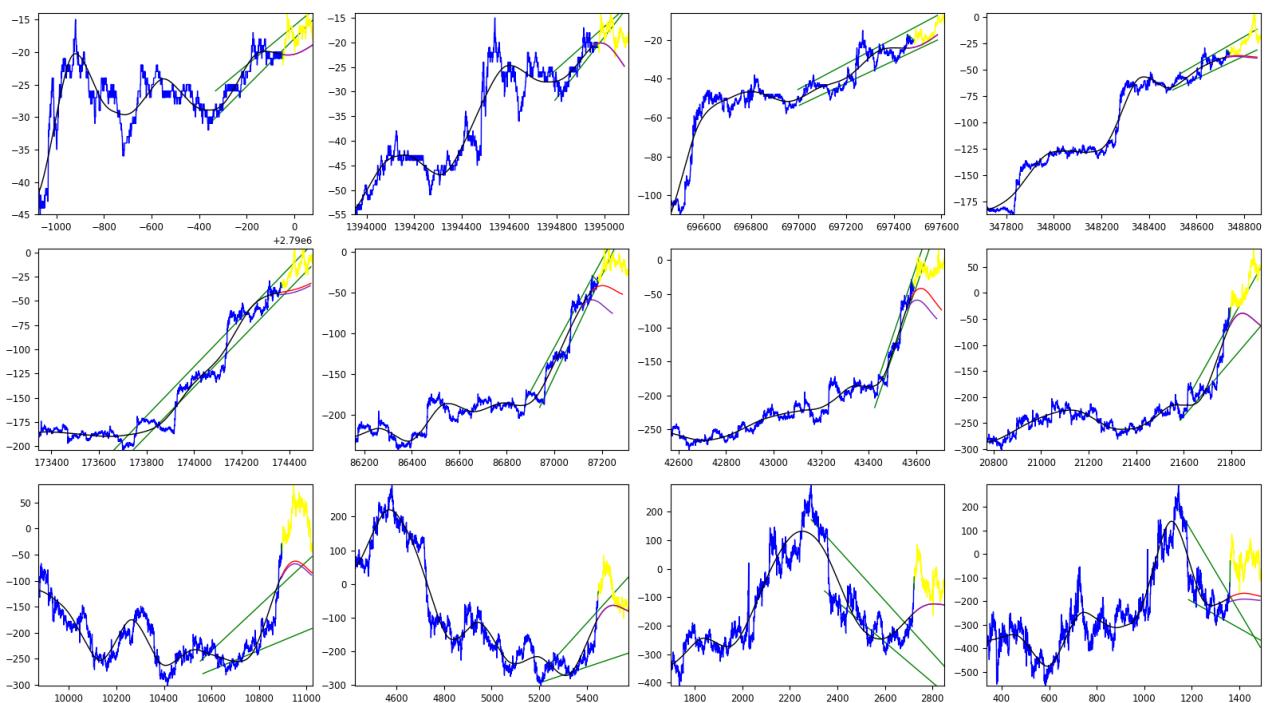


2789950: ptype: 5[0] 6[1] 2[2] 4[3] 2[4] 6[5,6,7,8] 4[9,10,11]

dir: -1[0] 1[1,2,3,4,5,6,7,8,9,10,11]

otp: -1[0] 0[1,2] 1[3,4] 0[5,6] 1[7,8,9,10,11]

cshape: 1[0] 5[1] 1[2,3,4,5,6,7] 3[8,9] 5[10] 3[11]



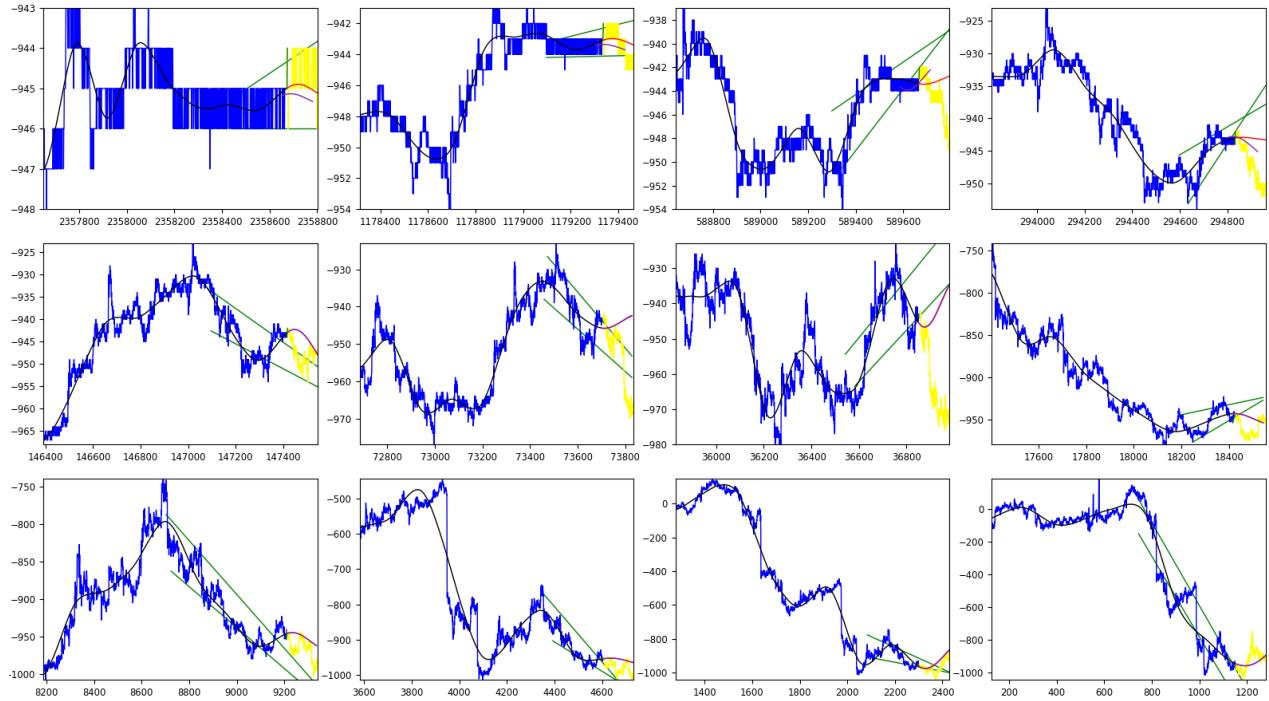
## 2.9 c9 2358675 2358850

2358675: ptype: 6[0] 4[1] 5[2] 4[3] 6[4] 2[5] 7[6] 3[7] 4[8,9] 5[10,11]

dir: 1[0,1] -1[2] 1[3,4,5] -1[6,7] 1[8,9] -1[10,11]

otp: 1[0] 0[1] -1[2,3] 1[4,5] -1[6] 0[7] 1[8,9] 0[10] 1[11]

cshape: 1[0,1] 3[2,3] 5[4,5] 1[6] 3[7] 5[8] 3[9] 2[10] 1[11]

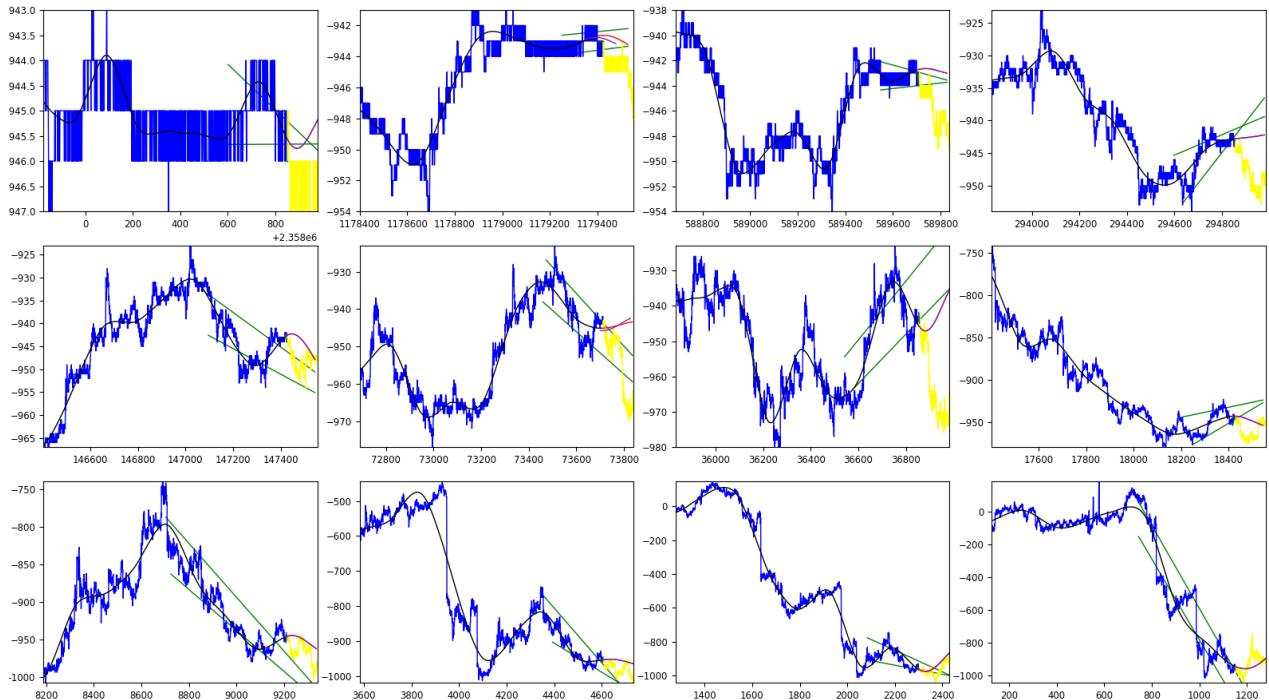


2358850: ptype: 7[0] 4[1,2] 2[3] 6[4] 2[5] 7[6] 3[7] 4[8,9] 5[10,11]

dir: -1[0] 1[1,2,3,4,5] -1[6,7] 1[8,9] -1[10,11]

otp: -1[0,1,2,3] 1[4] 0[5] -1[6] 0[7] 1[8,9] 0[10] 1[11]

cshape: 3[0] 5[1] 3[2,3] 5[4] 1[5,6] 3[7] 5[8] 3[9] 2[10] 1[11]



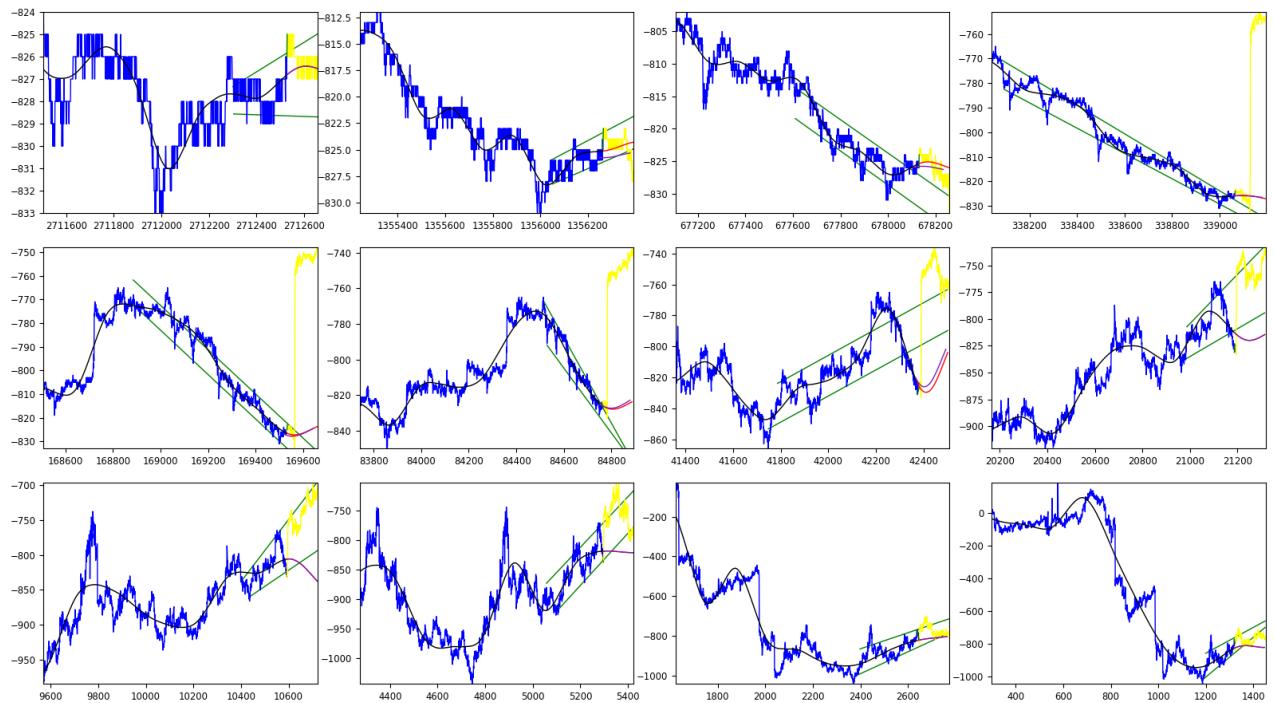
## 2.10 c9 2712530 2712700

2712530: ptype: 4[0] 2[1] 4[2] 3[3] 5[4] 7[5,6,7] 3[8,9] 2[10] 4[11]

dir: 1[0,1,2] -1[3,4,5,6,7,8,9] 1[10,11]

otp: 1[0] 0[1] 1[2,3] 0[4] 1[5] -1[6,7,8] 0[9,10,11]

cshape: 3[0] 1[1,2,3,4,5,6] 4[7,8] 1[9] 5[10,11]

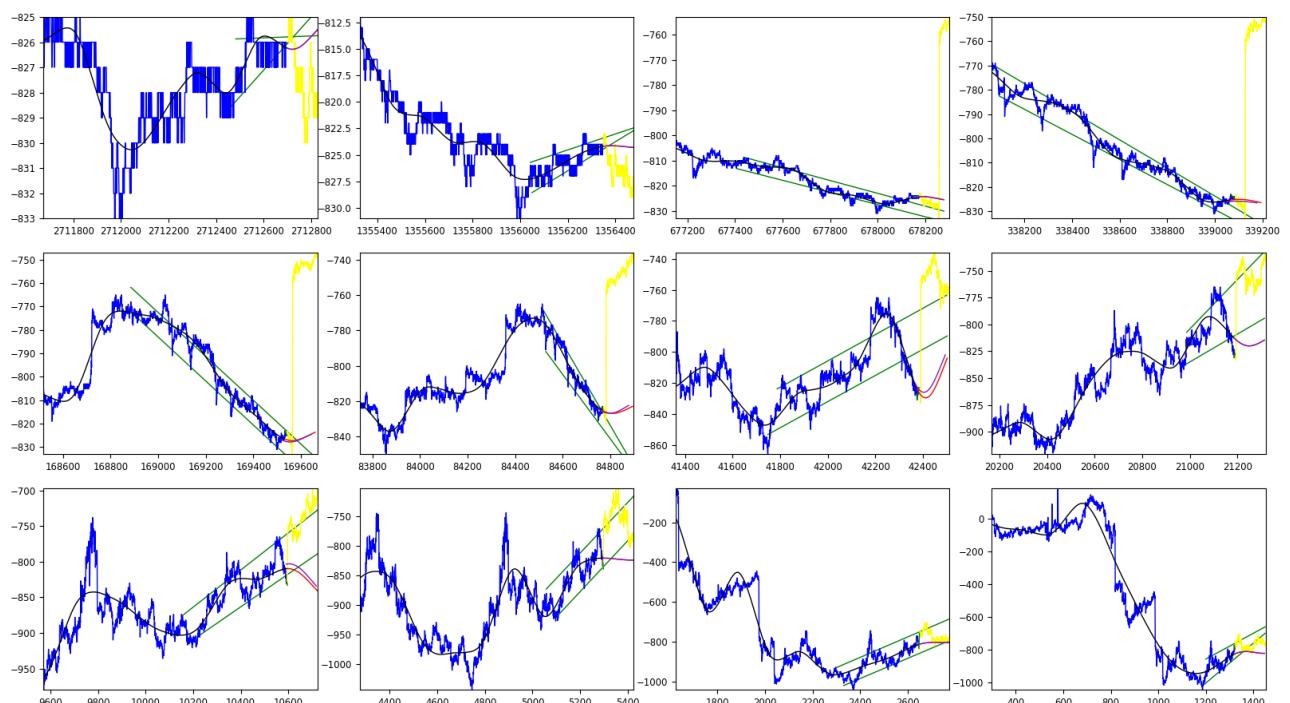


2712700: ptype: 5[0] 4[1,2,3] 5[4] 7[5,6,7] 3[8,9] 2[10] 4[11]

dir: -1[0] 1[1,2,3] -1[4,5,6,7,8,9] 1[10,11]

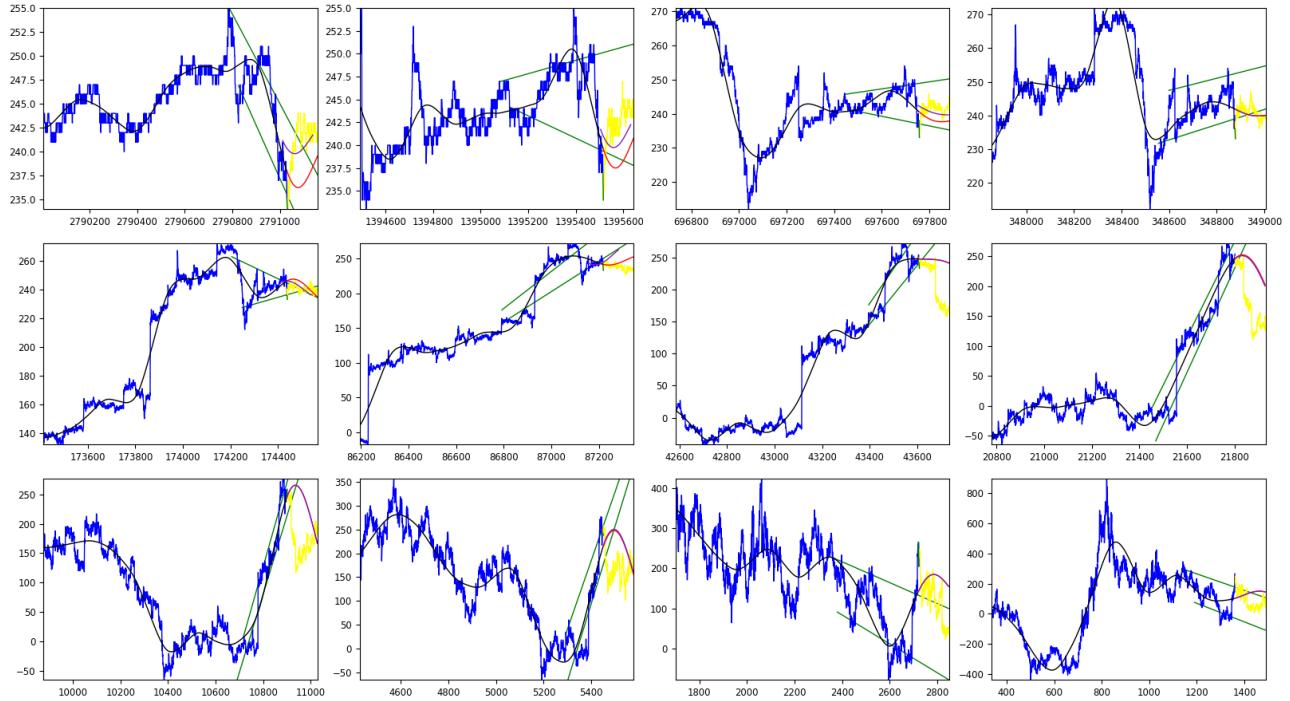
otp: 0[0] -1[1] 1[2,3] 0[4] 1[5] -1[6,7,8] 0[9,10,11]

cshape: 3[0] 1[1,2,3,4,5,6] 4[7] 1[8,9,10] 5[11]

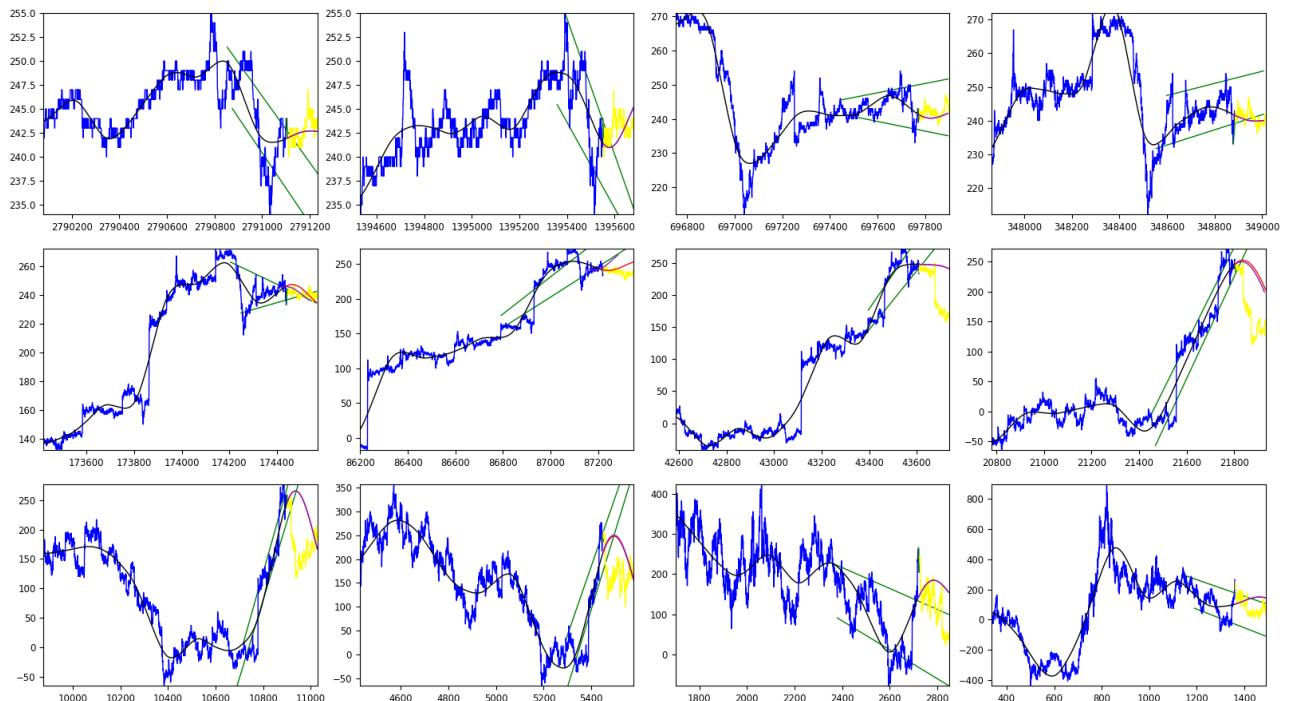


## 2.11 m9 2791032 2791106

2791032: ptype: 7[0,1] 5[2,3] 4[4] 5[5] 3[6] 6[7,8,9,10] 4[11]  
 dir: -1[0,1,2,3] 1[4] -1[5,6] 1[7,8,9,10,11]  
 otp: -1[0,1,2,3,4,5,6] 0[7,8,9] 1[10,11]  
 cshape: 1[0] 3[1,2] 1[3] 3[4] 1[5,6,7,8,9] 4[10] 1[11]



2791106: ptype: 4[0] 7[1] 5[2,3] 4[4] 5[5] 3[6] 6[7,8,9,10] 4[11]  
 dir: 1[0] -1[1,2,3] 1[4] -1[5,6] 1[7,8,9,10,11]  
 otp: 0[0,1,2,3,4] -1[5,6] 0[7,8,9] 1[10,11]  
 cshape: 1[0,1] 3[2] 1[3] 3[4] 1[5,6,7,8,9] 4[10] 1[11]



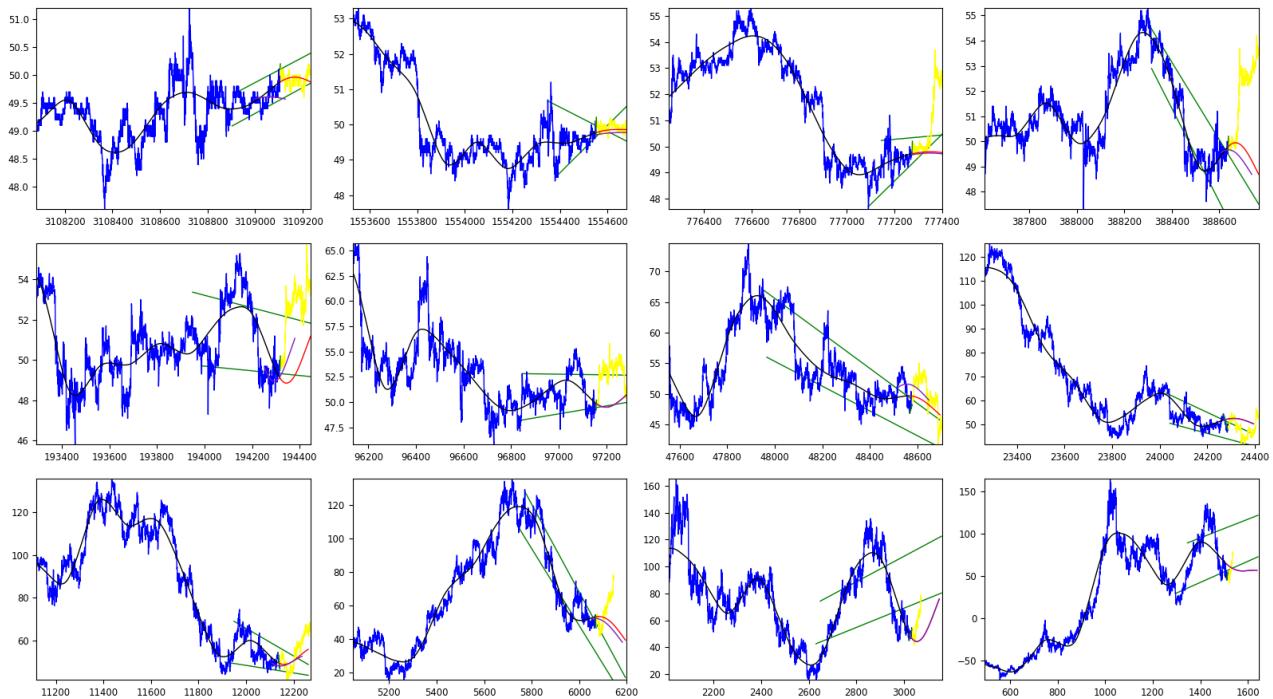
## 2.12 jm 3109106 3109281

3109106: ptype: 4[0] 2[1] 4[2] 6[3] 7[4,5] 3[6] 4[7] 5[8] 3[9] 7[10] 3[11]

dir: 1[0,1,2,3] -1[4,5,6] 1[7] -1[8,9,10,11]

otp: 1[0,1] 0[2] 1[3] 0[4,5] 1[6] 0[7,8] 1[9] -1[10,11]

cshape: 1[0] 3[1,2] 1[3] 3[4,5] 5[6] 3[7,8] 1[9] 4[10] 1[11]

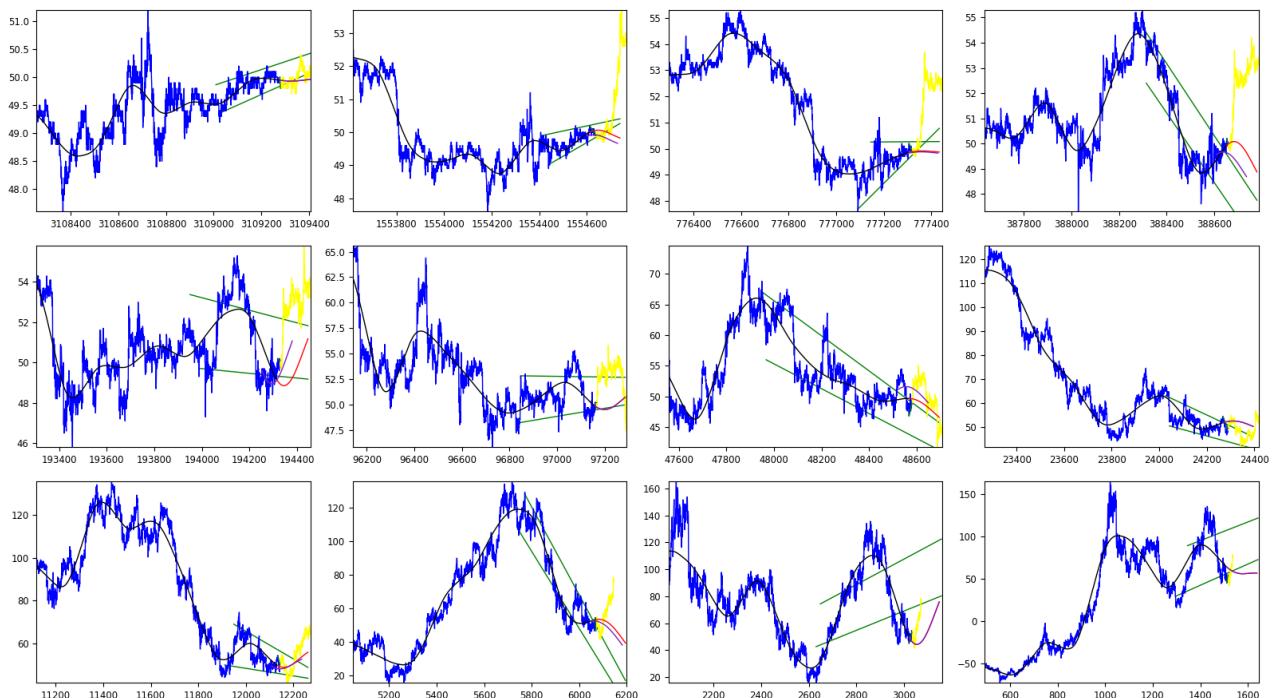


3109281: ptype: 5[0] 4[1,2] 6[3] 7[4,5] 3[6] 4[7] 5[8] 3[9] 7[10] 3[11]

dir: -1[0] 1[1,2,3] -1[4,5,6] 1[7] -1[8,9,10,11]

otp: -1[0,1] 0[2] 1[3] 0[4,5] 1[6] 0[7,8] 1[9] -1[10,11]

cshape: 5[0] 3[1,2] 1[3] 3[4,5] 5[6] 3[7,8] 1[9] 4[10] 1[11]



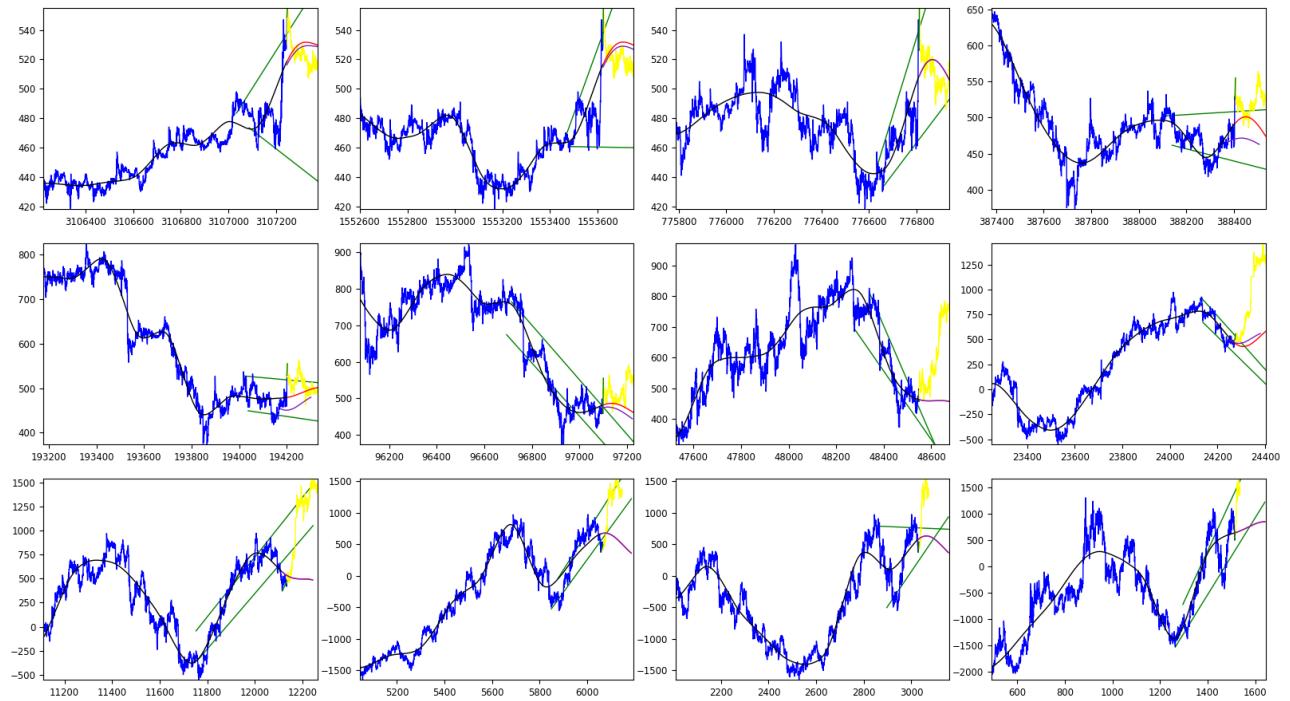
## 2.13 ni 3107248 3107390

3107248: ptype: 4[0,1] 6[2,3] 2[4] 4[5] 1[6] 7[7] 3[8] 4[9] 6[10] 2[11]

dir: 1[0,1,2,3,4,5] 0[6] -1[7,8] 1[9,10,11]

otp: 1[0,1,2,3,4,5,6,7] -1[8,9] 0[10,11]

cshape: 3[0,1] 4[2] 2[3,4] 1[5] 5[6] 1[7,8,9] 3[10] 1[11]

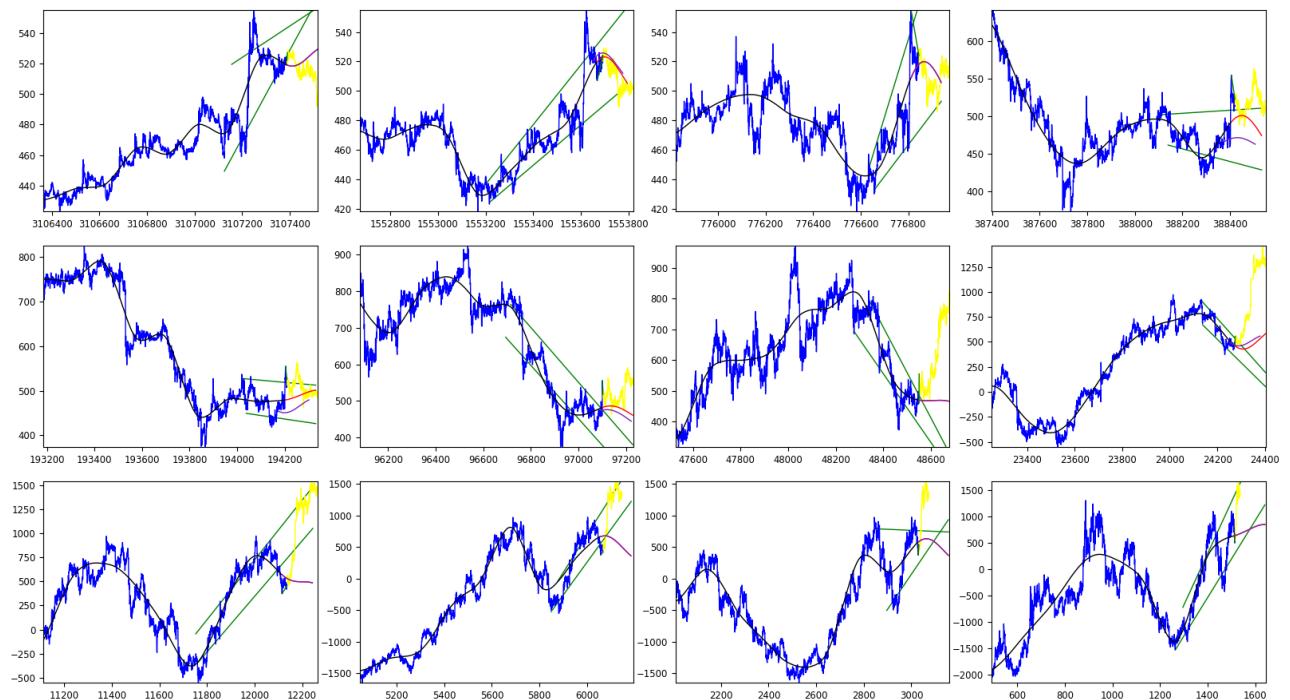


3107390: ptype: 5[0] 6[1,2,3] 2[4] 4[5] 1[6] 7[7] 3[8] 4[9] 6[10] 2[11]

dir: -1[0] 1[1,2,3,4,5] 0[6] -1[7,8] 1[9,10,11]

otp: 0[0,1,2] 1[3,4,5,6] 0[7] -1[8,9] 0[10,11]

cshape: 3[0] 4[1,2] 2[3,4] 1[5,6,7,8,9] 3[10] 1[11]



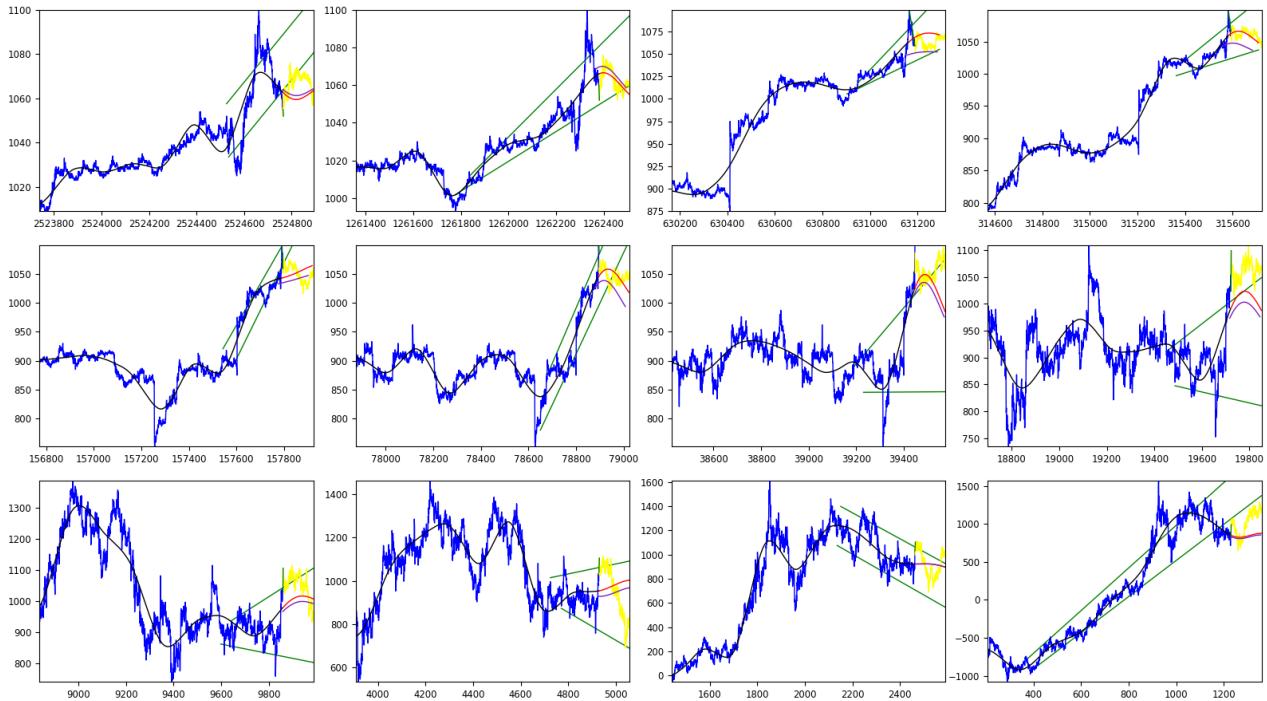
## 2.14 zn 2524765 2525108

2524765: ptype: 7[0] 4[1,2] 6[3] 2[4] 6[5,6,7] 4[8] 2[9] 3[10] 5[11]

dir: -1[0] 1[1,2,3,4,5,6,7,8,9] -1[10,11]

otp: -1[0] 0[1,2,3] -1[4] 0[5] 1[6,7,8] 0[9,10] -1[11]

cshape: 1[0] 5[1] 3[2,3] 1[4,5] 3[6] 2[7] 3[8,9] 1[10,11]

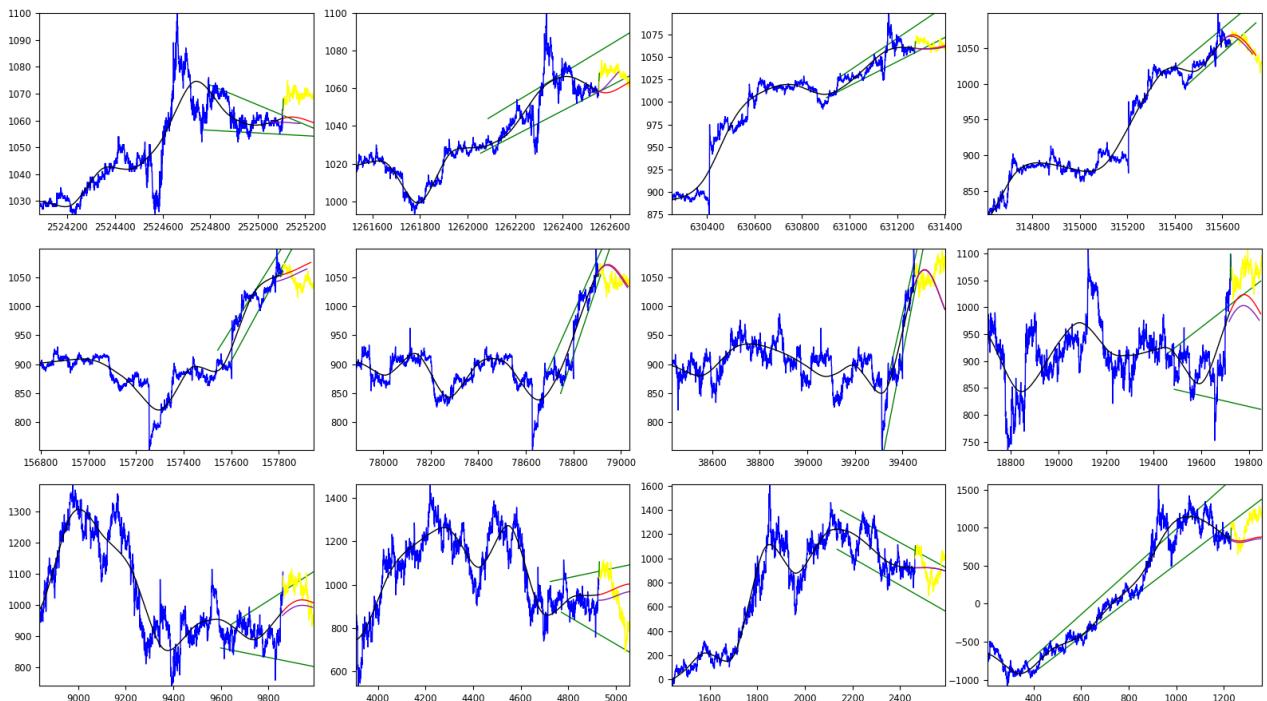


2525108: ptype: 4[0] 5[1] 2[2] 6[3] 2[4] 6[5,6,7] 4[8] 2[9] 3[10] 5[11]

dir: 1[0] -1[1] 1[2,3,4,5,6,7,8,9] -1[10,11]

otp: 1[0] 0[1,2,3] -1[4] 0[5,6] 1[7,8,9,10] -1[11]

cshape: 3[0] 1[1] 5[2] 1[3,4,5,6] 2[7] 3[8,9] 1[10,11]



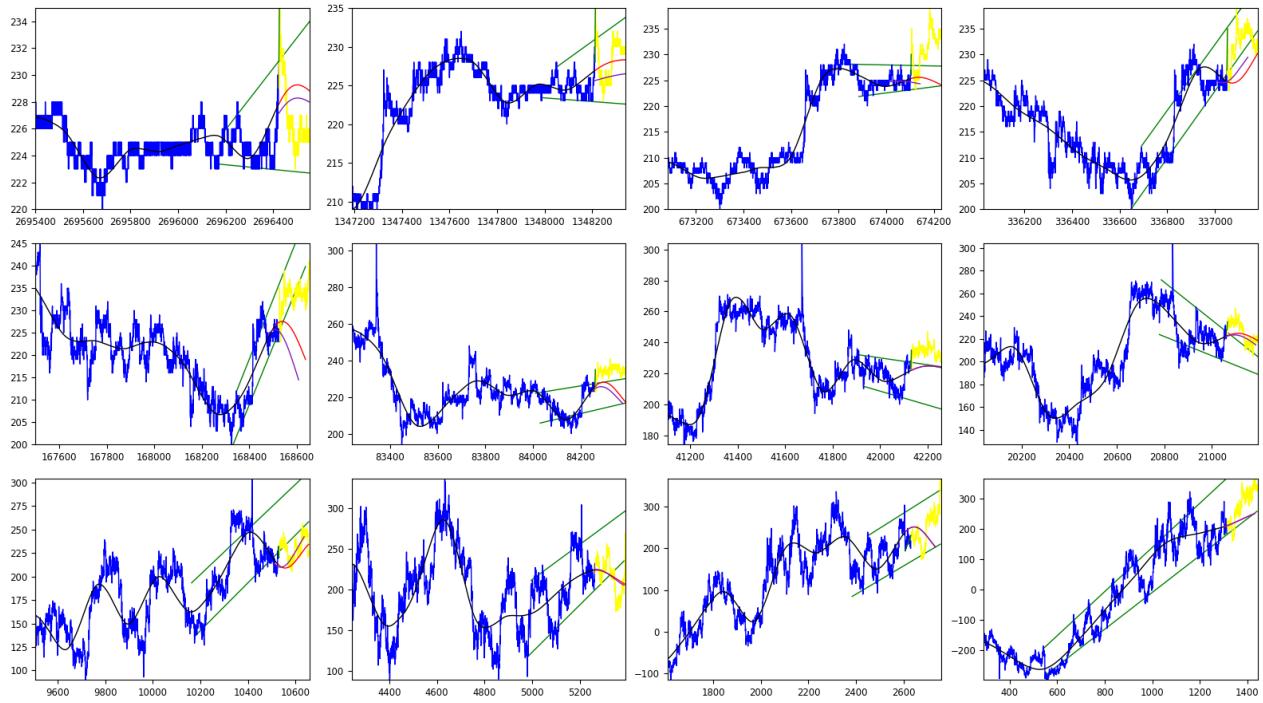
## 2.15 FG 2696426 2696550

2696426: ptype: 6[0] 2[1] 4[2] 7[3] 6[4,5] 4[6,7] 7[8] 3[9] 6[10] 2[11]

dir: 1[0,1,2] -1[3] 1[4,5,6,7] -1[8,9] 1[10,11]

otp: 1[0,1,2] 0[3,4] 1[5,6,7] 0[8,9,10,11]

cshape: 3[0,1,2] 1[3,4] 5[5] 3[6,7] 1[8] 5[9] 1[10,11]

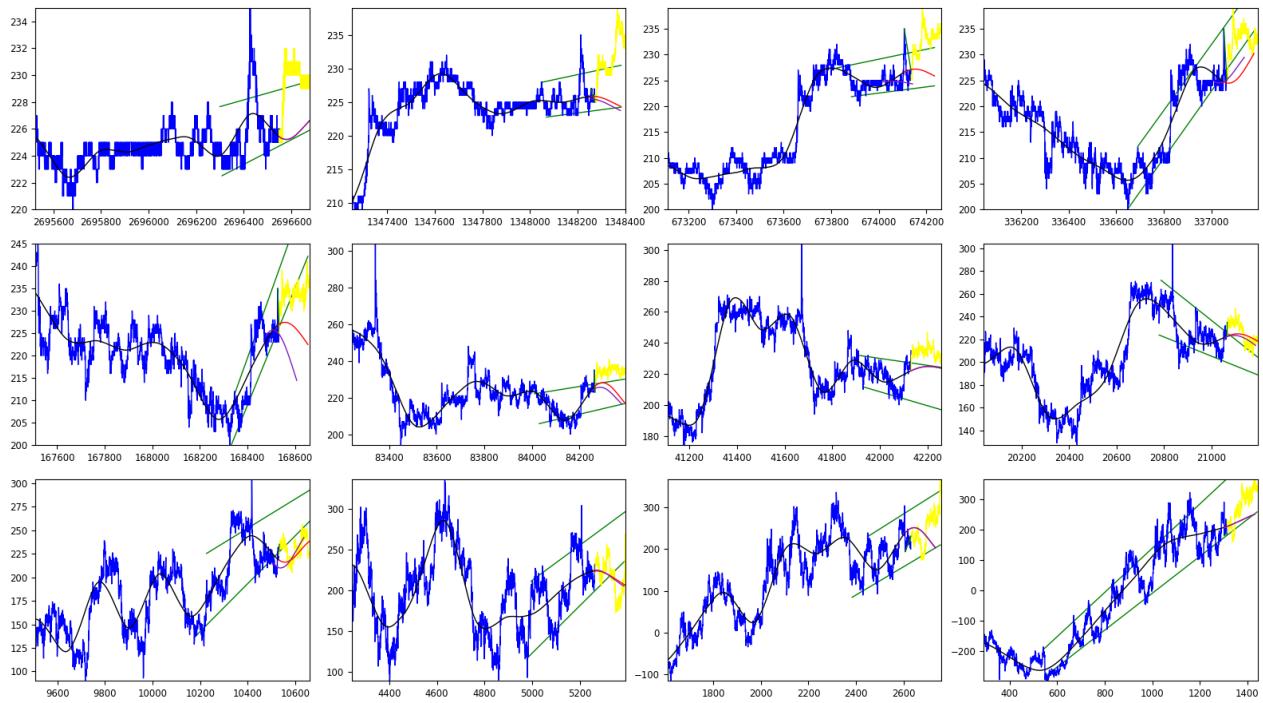


2696550: ptype: 7[0] 3[1] 4[2] 7[3] 6[4,5] 4[6,7] 7[8] 3[9] 6[10] 2[11]

dir: -1[0,1] 1[2] -1[3] 1[4,5,6,7] -1[8,9] 1[10,11]

otp: 0[0,1,2] -1[3,4] 0[5,6] 1[7] -1[8] 0[9,10,11]

cshape: 3[0] 1[1] 3[2] 1[3,4] 5[5] 3[6,7] 5[8,9] 1[10,11]



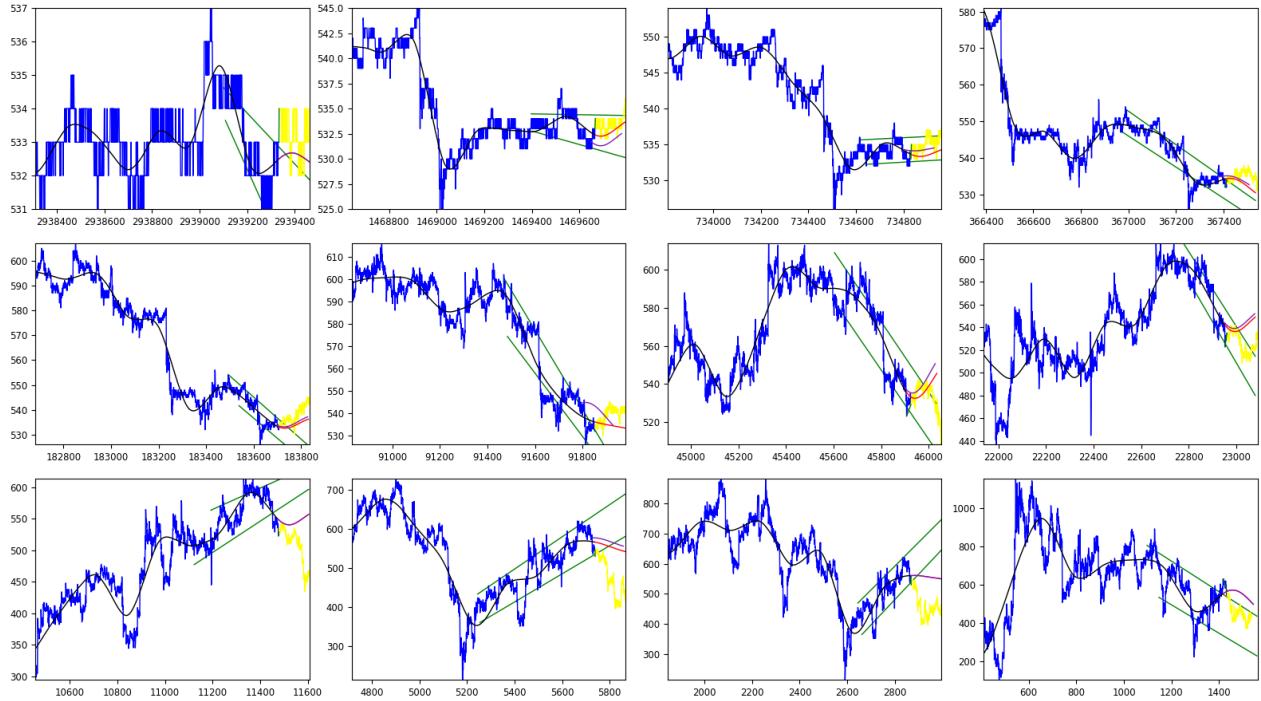
## 2.16 ag 2939335 2939520

2939335: ptype: 6[0] 5[1,2] 4[3] 5[4] 3[5] 7[6,7,8] 3[9,10] 6[11]

dir: 1[0] -1[1,2] 1[3] -1[4,5,6,7,8,9,10] 1[11]

otp: 1[0] 0[1,2] 1[3] 0[4] 1[5] 0[6,7] -1[8,9,10] 0[11]

cshape: 3[0,1] 1[2,3,4,5,6,7] 5[8] 1[9,10,11]

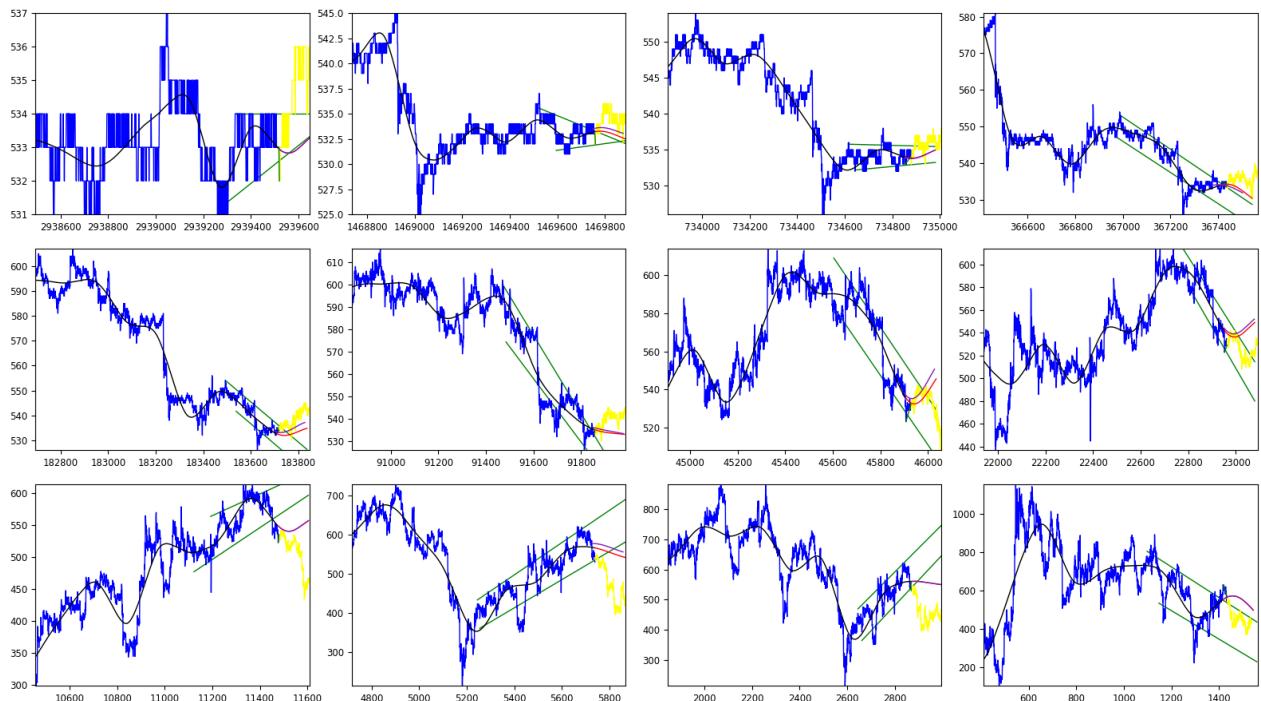


2939520: ptype: 7[0] 4[1] 5[2] 4[3] 5[4] 3[5] 7[6,7,8] 3[9,10] 6[11]

dir: -1[0] 1[1] -1[2] 1[3] -1[4,5,6,7,8,9,10] 1[11]

otp: -1[0] 0[1] -1[2] 0[3,4] 1[5] 0[6,7] -1[8,9,10] 0[11]

cshape: 2[0] 3[1,2] 1[3,4,5,6,7] 5[8] 1[9,10,11]



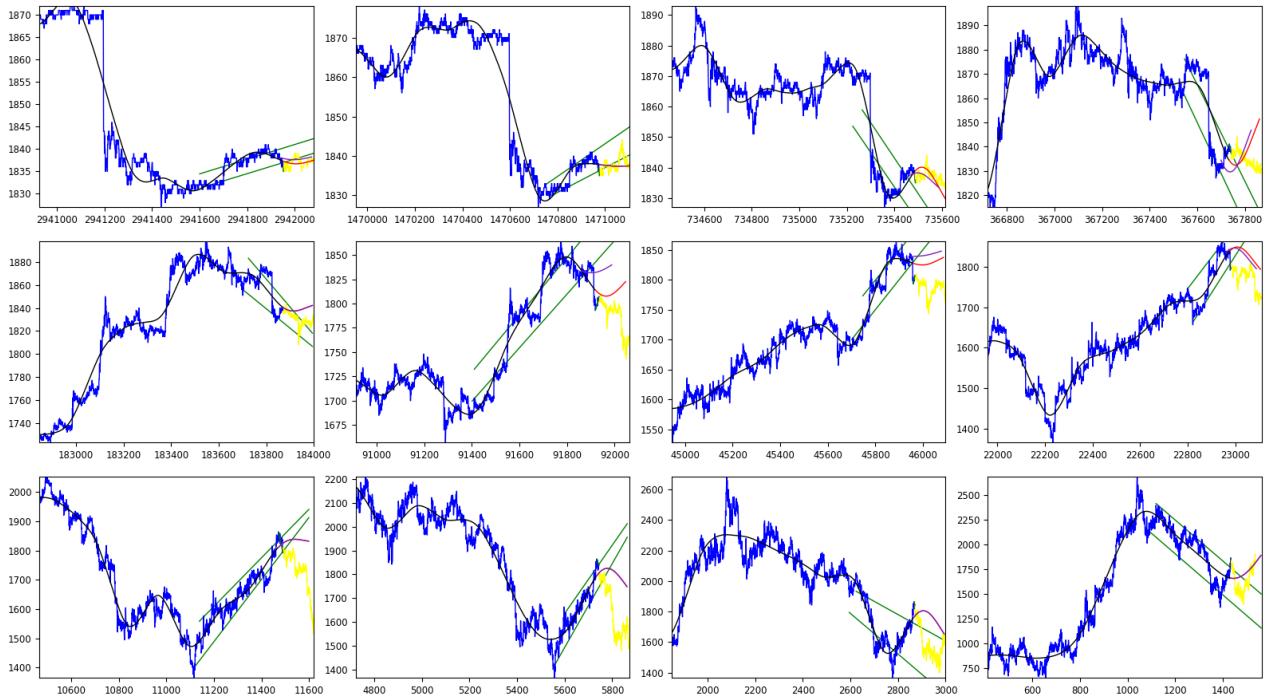
## 2.17 SR 2941952 2942117

2941952: ptype: 5[0] 3[1] 6[2] 7[3] 5[4] 7[5] 5[6] 6[7] 4[8] 6[9,10] 2[11]

dir: -1[0,1] 1[2] -1[3,4,5,6] 1[7,8,9,10,11]

otp: -1[0,1] 1[2] 0[3,4] -1[5] 0[6,7,8,9] 1[10,11]

cshape: 1[0] 5[1] 1[2,3] 5[4] 1[5,6,7,8,9] 3[10] 1[11]

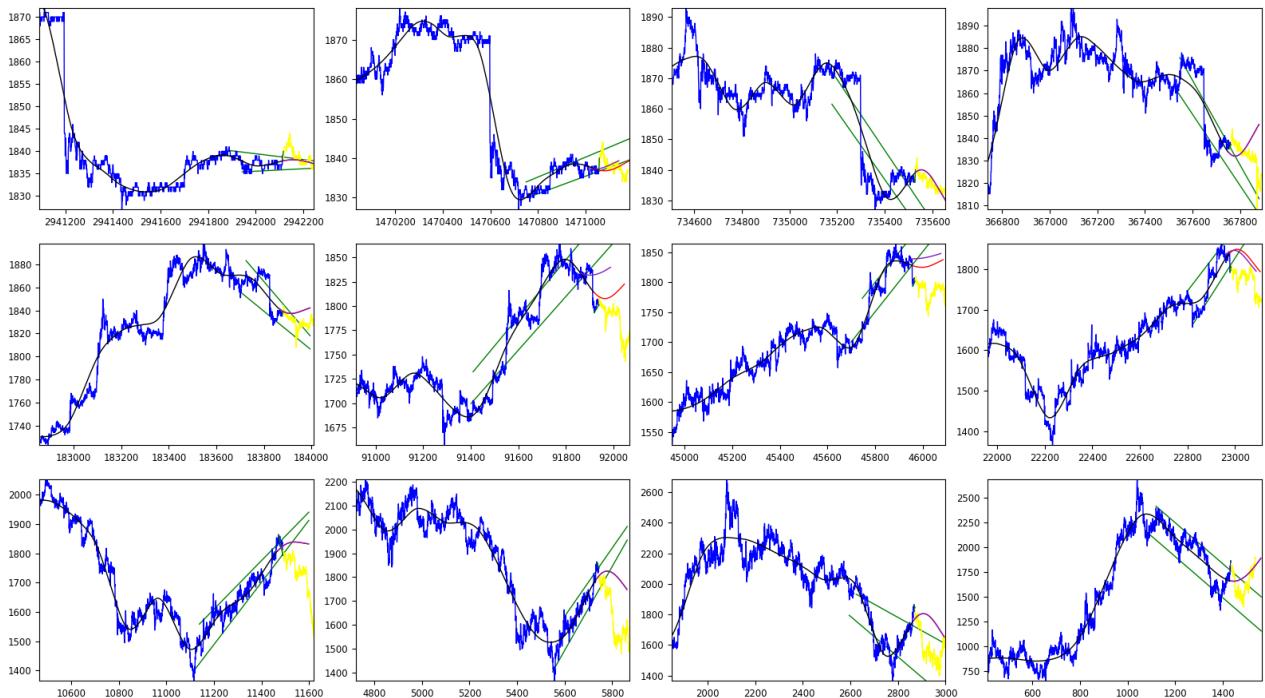


2942117: ptype: 4[0] 5[1] 6[2] 7[3] 5[4] 7[5] 5[6] 6[7] 4[8] 6[9,10] 2[11]

dir: 1[0] -1[1] 1[2] -1[3,4,5,6] 1[7,8,9,10,11]

otp: 1[0] 0[1] 1[2,3] 0[4] -1[5] 0[6,7,8,9] 1[10,11]

cshape: 3[0] 1[1,2,3] 5[4] 1[5,6,7,8,9] 3[10] 1[11]



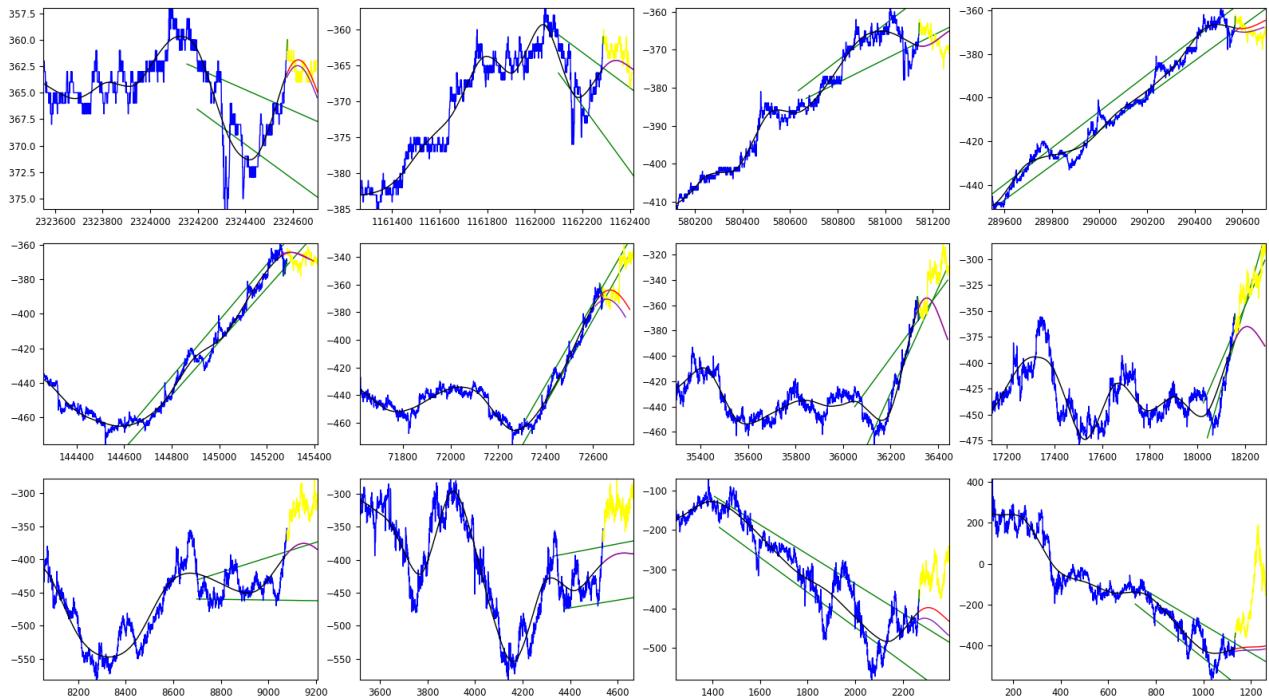
## 2.18 v9 2324577 2324728

2324577: ptype: 6[0,1] 2[2] 5[3] 4[4] 6[5,6,7,8] 4[9] 6[10] 2[11]

dir: 1[0,1,2] -1[3] 1[4,5,6,7,8,9,10,11]

otp: 1[0,1] 0[2,3,4] 1[5,6,7,8,9,10,11]

cshape: 3[0,1] 4[2] 1[3,4,5,6,7] 3[8] 1[9,10] 5[11]

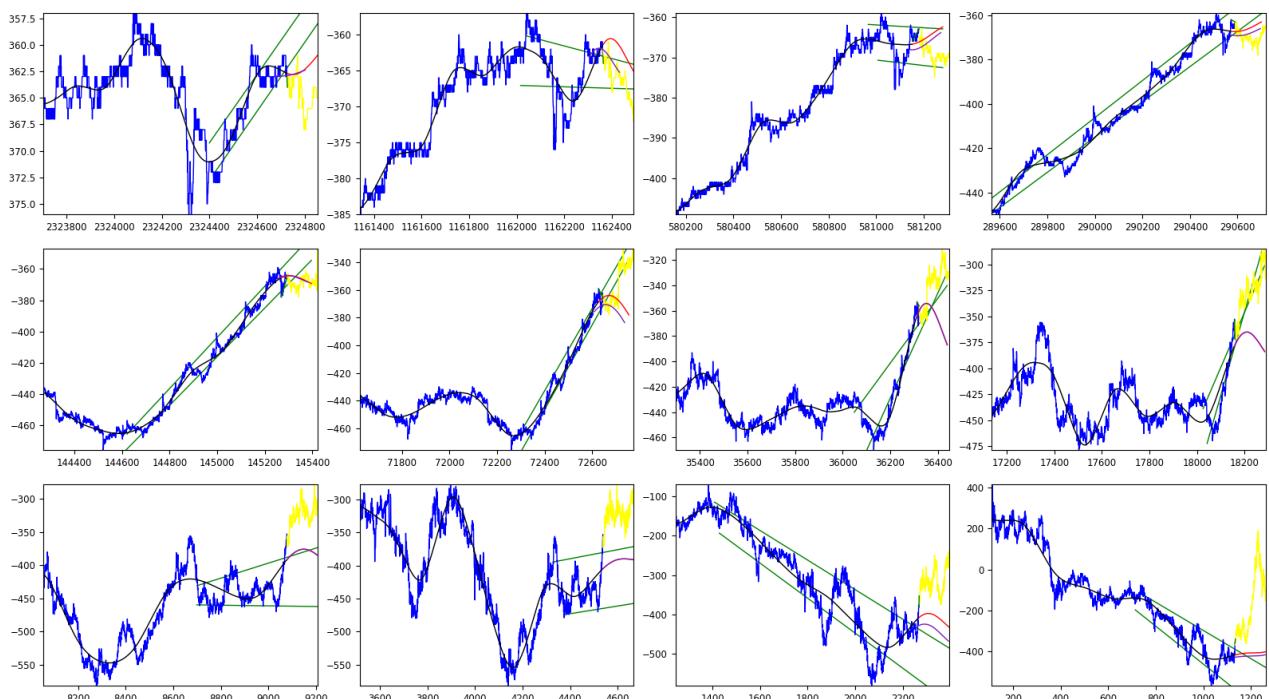


2324728: ptype: 5[0] 6[1] 2[2] 5[3] 4[4] 6[5,6,7,8] 4[9] 6[10] 2[11]

dir: -1[0] 1[1,2] -1[3] 1[4,5,6,7,8,9,10,11]

otp: -1[0] 0[1,2,3,4,5] 1[6,7,8,9,10,11]

cshape: 1[0] 3[1,2] 1[3,4,5,6,7] 3[8] 1[9,10] 5[11]



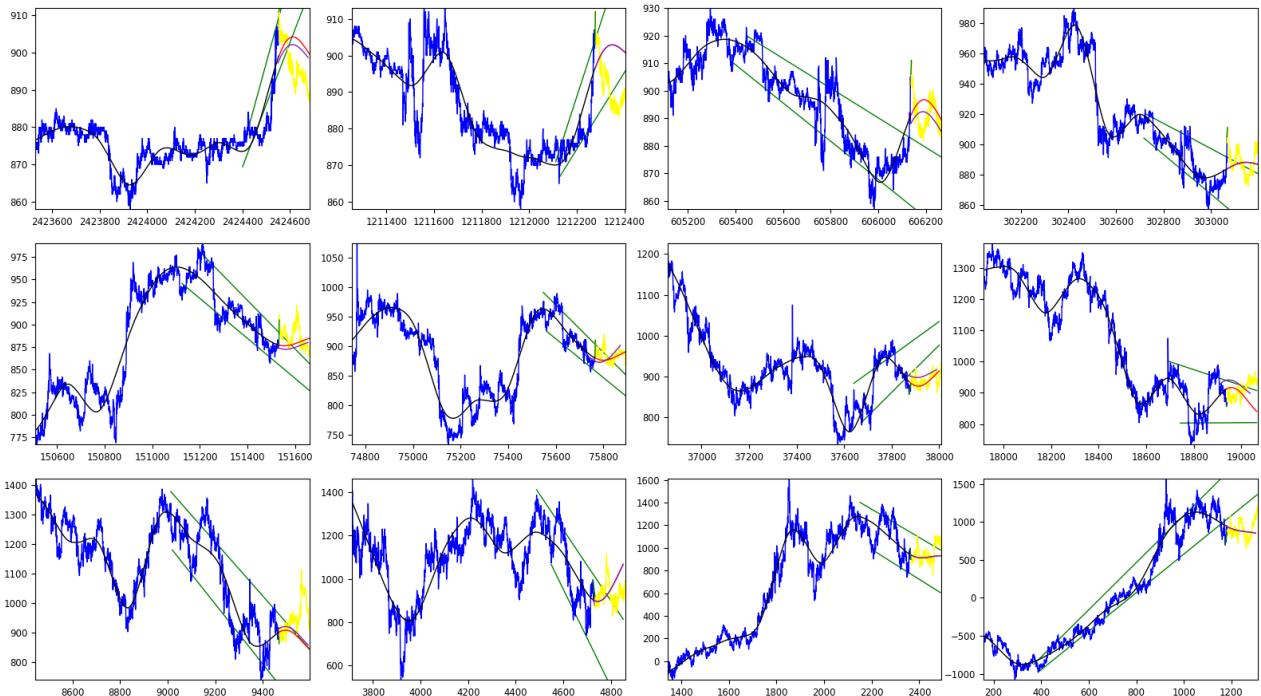
## 2.19 zn 2424556 2424652

2424556: ptype: 6[0,1,2] 4[3] 5[4,5] 7[6] 6[7] 4[8] 7[9] 5[10] 3[11]

dir: 1[0,1,2,3] -1[4,5,6] 1[7,8] -1[9,10,11]

otp: 1[0,1,2,3,4,5] 0[6,7,8,9,10] -1[11]

cshape: 1[0] 5[1,2] 3[3] 1[4,5] 5[6] 3[7] 1[8,9,10,11]



2424652: ptype: 5[0] 6[1,2] 4[3] 2[4] 5[5] 7[6] 6[7] 4[8] 7[9] 5[10] 3[11]

dir: -1[0] 1[1,2,3,4] -1[5,6] 1[7,8] -1[9,10,11]

otp: 0[0,1] 1[2,3,4] 0[5] -1[6] 0[7,8,9,10] -1[11]

cshape: 1[0,1] 3[2,3] 1[4,5] 5[6] 3[7] 1[8,9,10,11]



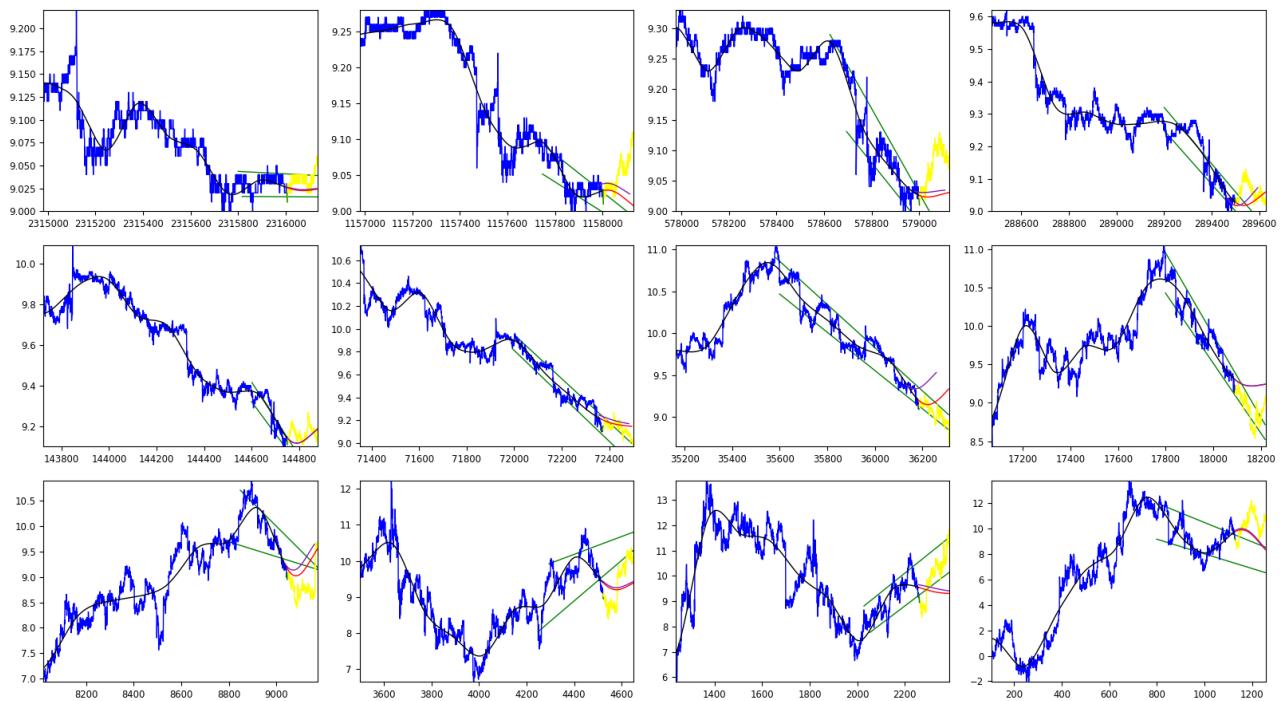
## 2.20 au 2316007 2316130

2316007: ptype: 5[0] 4[1] 5[2] 7[3,4] 3[5] 7[6] 5[7] 7[8] 5[9] 3[10] 6[11]

dir: -1[0] 1[1] -1[2,3,4,5,6,7,8,9,10] 1[11]

otp: -1[0] 0[1,2,3] -1[4,5,6,7,8,9,10] 0[11]

cshape: 3[0] 5[1,2] 1[3,4,5,6,7] 3[8,9] 1[10] 5[11]



2316130: ptype: 4[0,1] 5[2,3] 7[4] 3[5] 7[6] 5[7] 7[8] 5[9] 3[10] 6[11]

dir: 1[0,1] -1[2,3,4,5,6,7,8,9,10] 1[11]

otp: 1[0,1,2,3] -1[4] 0[5] -1[6,7,8,9,10] 0[11]

cshape: 1[0] 5[1] 1[2,3,4,5,6,7] 3[8,9] 1[10] 5[11]

