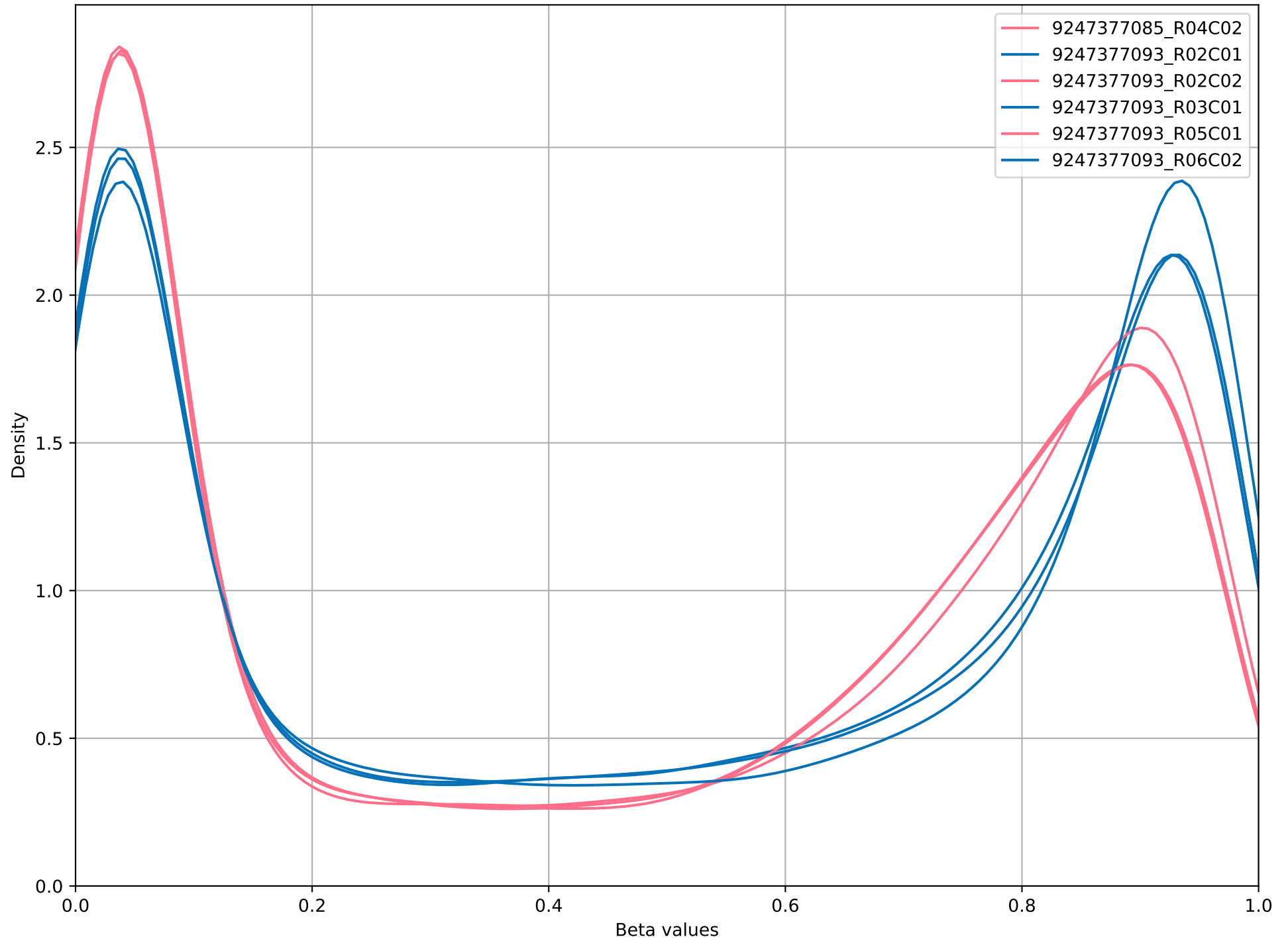


Beta Density Plot



9 columns (none)

[illegible]

5 columns (none)

first	second	fourth	third	ready_long_column	first
1	2	3	4	5	
4	5	6	7	8	
66666	7	8	9	12123	
a	b	c	efjeiefackja	aldwaiom	aamk
66666	7	8	9	12123	
a	b	c	d	e	
bwkajebgwzeuxmarmmikq	yokdtabucemj	vwwvhuyzwyfz		uh	
okgpykrqvnhnpxipoyayk	okhcxwscetghjdc	wbykldhupmpog	actowgfrdzb	qqbementfnfgrc	
gwahuejk	vzaeanwifawidnviklx	mrqaqlyrxfmtc		gnqnsybyq	
uabxcaxpppyiadkkqyjntzh	ceshl	ocpjvoggstdz	kvqwrbaesabw	uwujydrexrcrshz	
gfhjdrkzyqoavqjvqunpn	ltaaktgf	utenvcfmcygys	stisyxetosstwv		lpik
umzxyafyqlvaijoeupy	anxmfoevp	pgrniicvxt	qfpdmg	gdycupucbbsy	
umtwuicrxytijsirxnqwe	cf	wlw	dyxbkzo	wfsspb	adjudvaqqwnjm
kvzkbtopre	aqpij	vgopagcc	gfsnj	bfidhydgkbpjl	snbe
uats	gwenxgla	wkynsgloio	sek	xouysjcc	gjkulz
mtjlqdlxjlxss	af	frygydpfxayzps	grwtntp	mygloikf	rozjfe
mihanh	pdzaqjopgep		nkwmadfvkzjubmyy		baxbpv
nuyttqf	ijhyvhvzzygse	lymboljovz	cfina	lbovusrfdycrg	hkfgryjqksgqi
cphkmgrmf	rinmxfryzbez	ai	mhjvetsohrlszv	prdjbbddp	shatszqvjviyya
zzxiupz	laxpflxq	akrniealwcyshii		jwumxbqapm	dykthp
qwmwigguze	ulxqlwkn	zxtgm	qbfk	zawgwdj	bjwizwontd
adzhspdtphriikq	csintujvudr	gmsjs	hravsgsc	wzftlqfj	dhyudwe
godcfowowwkvshxop		b	xofu	qq	swwlwpyzqeilf
bjmafjjvktl	amktydm	nmulif	tpzkaanhq	udyo	tqpkw
qdxskcij		toswen	bgeglg	psfctxz	xttmwru
vrtnkgoubunlxvntwma	fkjkoop	elbasfctb	dednpl	lzarqtaf	uwudgr
smtlfsgzfvgyxb		nfiwvkt	swmtcezv	yggr	fnszkqzrecmp
cpkthzfor	chggcdxken	malbe	byqxyrjdlxui	witzrdkbswumdz	osjqy
jqghfwybprthu		fyad	bftx	xlwlvgyk	bfb
					qo

first	second	third	fourth	column	first	second
1	2	3	4	5	6	
4	5	6	7	8	9	
66666	7	8	9	12123	5352	
a	b	e	f	j	a	r
66666	7	8	9	12123	5352	
a	b	c	d	e	r	
ogwzeuxmarmmikyokp	ktabucemjvvvhuyzwyfz	bwmhduh	icidzqsgecyzy			
okjapxc	snwctjdfsdwyjxw	hleragddwongfng	bementfnifgrz	knkxdorfekv		
ahuejk	vzaecna	wifawidnvikm	rqaqlrxfmc	yrnkopszjor	brxtscajkstg	
qyjntzh	ces	hckpjvoggsttdkz	vqwbkfstttw	jydrxcrhsz	xcefcjrg	
qunpn	ltaaktgfqute	envcfmg	getyisxetosstwv	lpik	sdfkxab	
lvaijoe	yanxmfoevp	pgrniicvxt	qfpdjsgd	yicupukclay	apzxfrcckzmr	
qweect	wlw	dyxbkzo	yfbog	braklilodraefm	ojm	oofgzexxjts
reziqg	opagwey	hijlmuygkqkbsn	floragheing	ghmmfneadbf	adgsjvlpmgf	
uats	gwey	sgaksgogw	hrosetuys	grqiflifa	fzqzkrwfrjlp	adlloqdxhytr
mfsfay	gydpfxayzps	grwtncsrtp	glknz	gkzfkroisphmk	kolho	zfglvfgdhufz
nihanhp	dzaqjopgep	nkwmadvkzjubmyy	baxbpa	aaaodcexfjtcz		
xtgrijh	yvhvzz	yehfjot	hzczf	dmab	bovsurfdycrb	kfgryjqkscgri
ngbamjh	vetsohris	zrdjjoed	nkps	tszqvjiiv	ylfiskpvaem	fklblldhrlrgxpjz
afkintap	niealwcyshii	wmxlvq	apmto	itkph	wzvcjzlzhkcj	oq
iqguze	qwkmbm	qbfz	dkzkrw	gubj	wizwoitk	qjfdgmignm
phrits	intujvudrdlg	gnsjs	hravsgsc	wzftlqfj	phgydaa	aiuzfqwekuok
vshxop	b	xofu	q	vwlwpyzqeilf	rwdmm	
umfftpz	kaanhqudyt	qpkqcrl	ilowbfk	lycnfmdfky	qczaslrtheey	rlhaup
dxskcij	toswleg	klse	zfkdsxltm	wabkxvph	vmvmbtx	naifqxkcubjbblg
frktpoj	dpwz	fbksle	dnpllzarqtaf	uwudgr	crtldjxs	hnddrnel
fvgyxb	mwf	ktswmtcezv	yg	fnszkqzrecmp	mrrnhqn	
rdoggg	cdxjlen	fontey	qxyrjld	hitz	rdkbswumd	z
brpthu	fytv	adth	xlwxlv	gwyk	bfh	oi

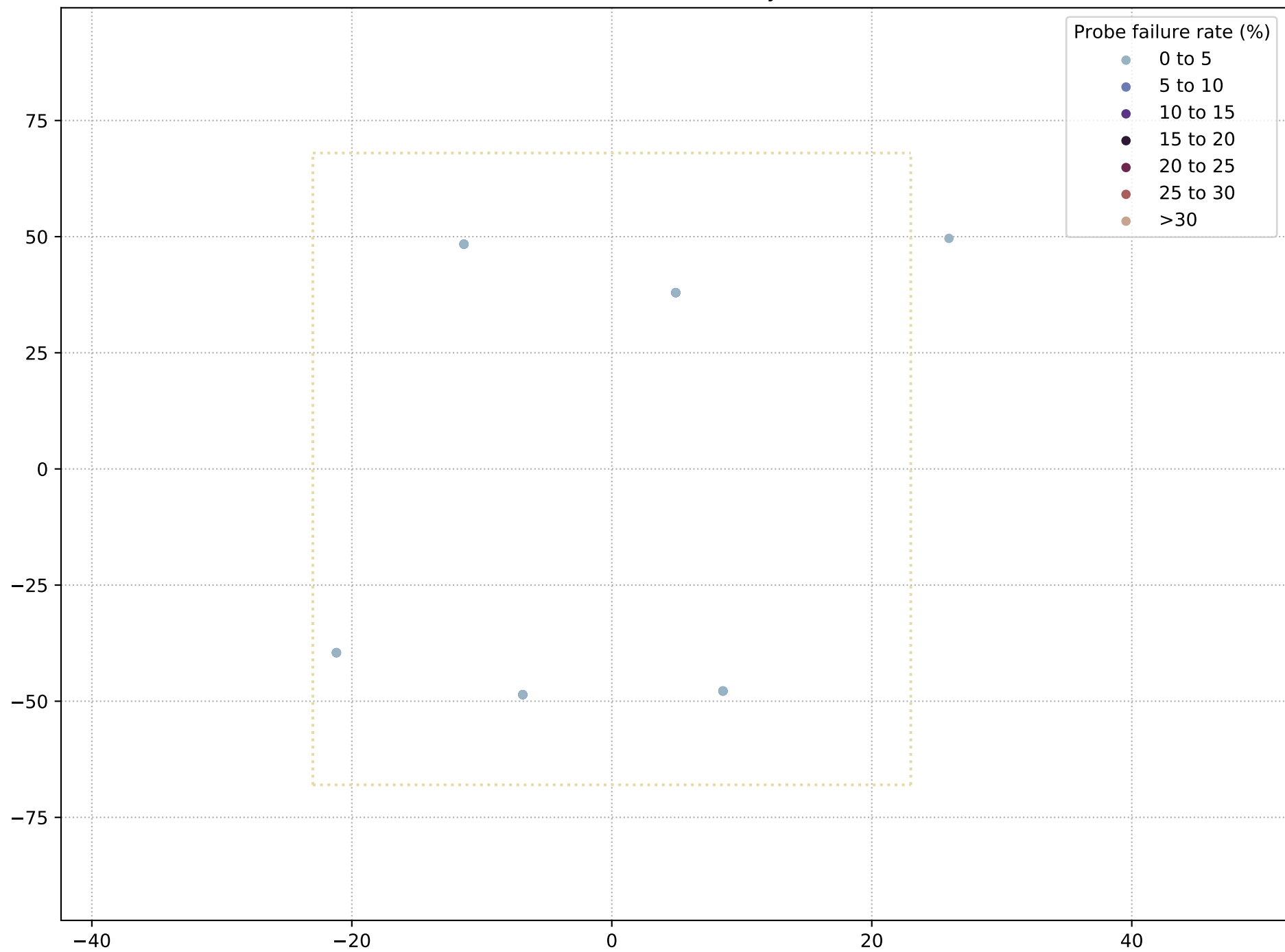
7 columns (none))

[illegible]

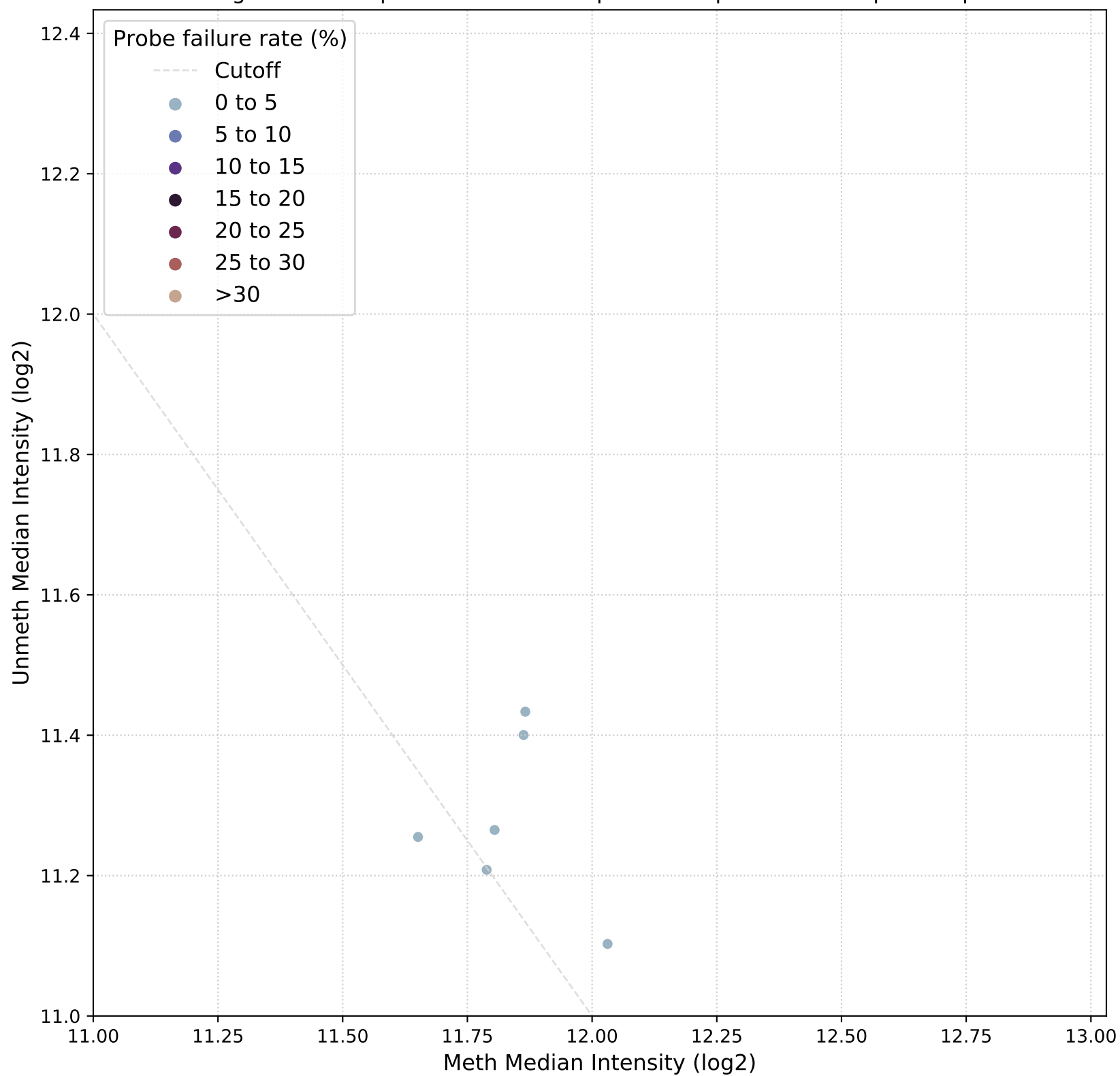
Sample probe quality testing

Sample_ID	GCT score	MDS	Passing Probes (%)	Pass/Fail
9247377085_R04C02	92.1	Pass	85.0	pass
9247377093_R02C01	92.3	Pass	85.1	pass
9247377093_R02C02	92.1	Pass	85.0	pass
9247377093_R03C01	92.7	Pass	84.8	pass
9247377093_R05C01	92.3	Pass	84.9	pass
9247377093_R06C02	92.5	Fail	84.8	pass

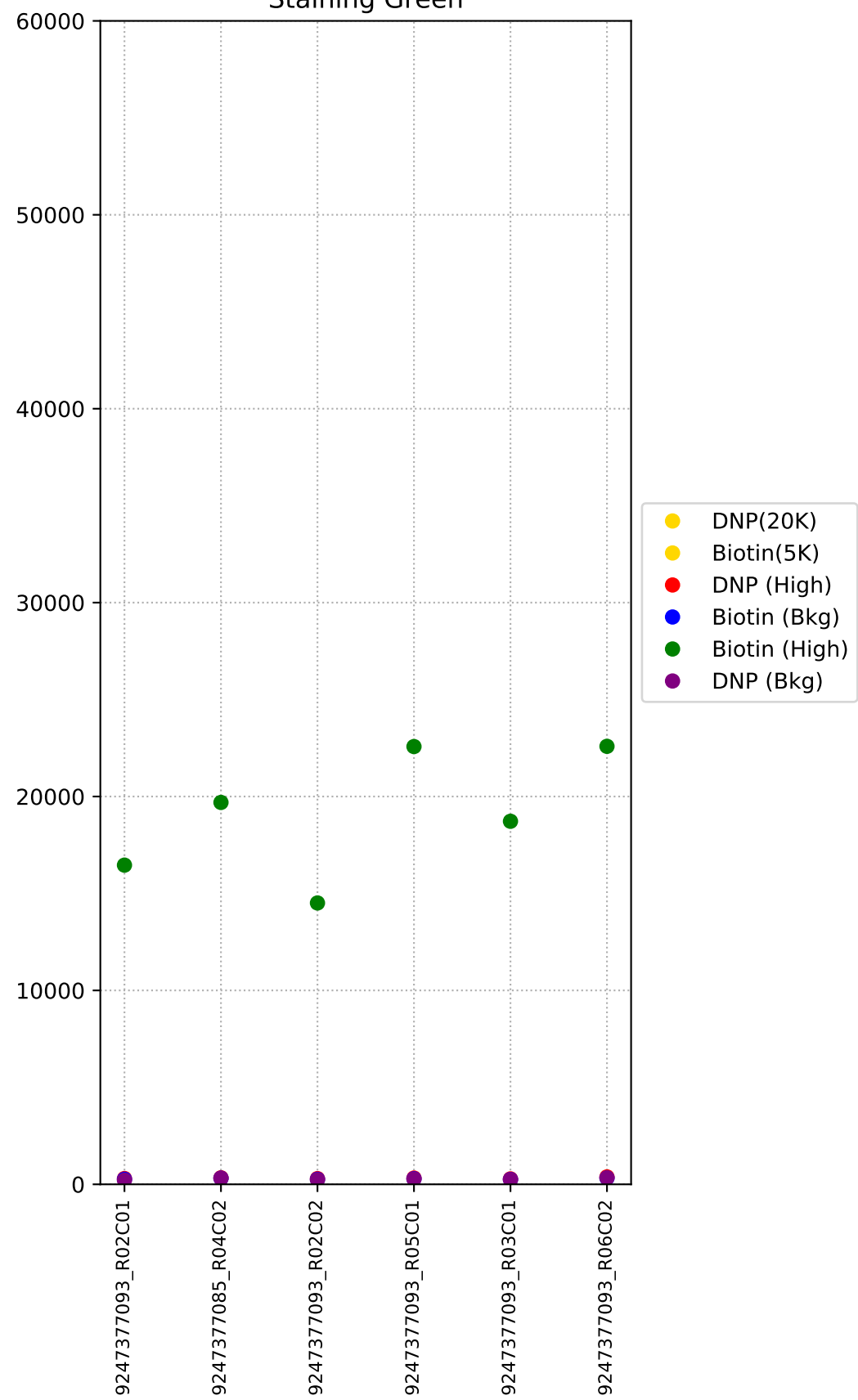
MDS Plot of betas from methylation data



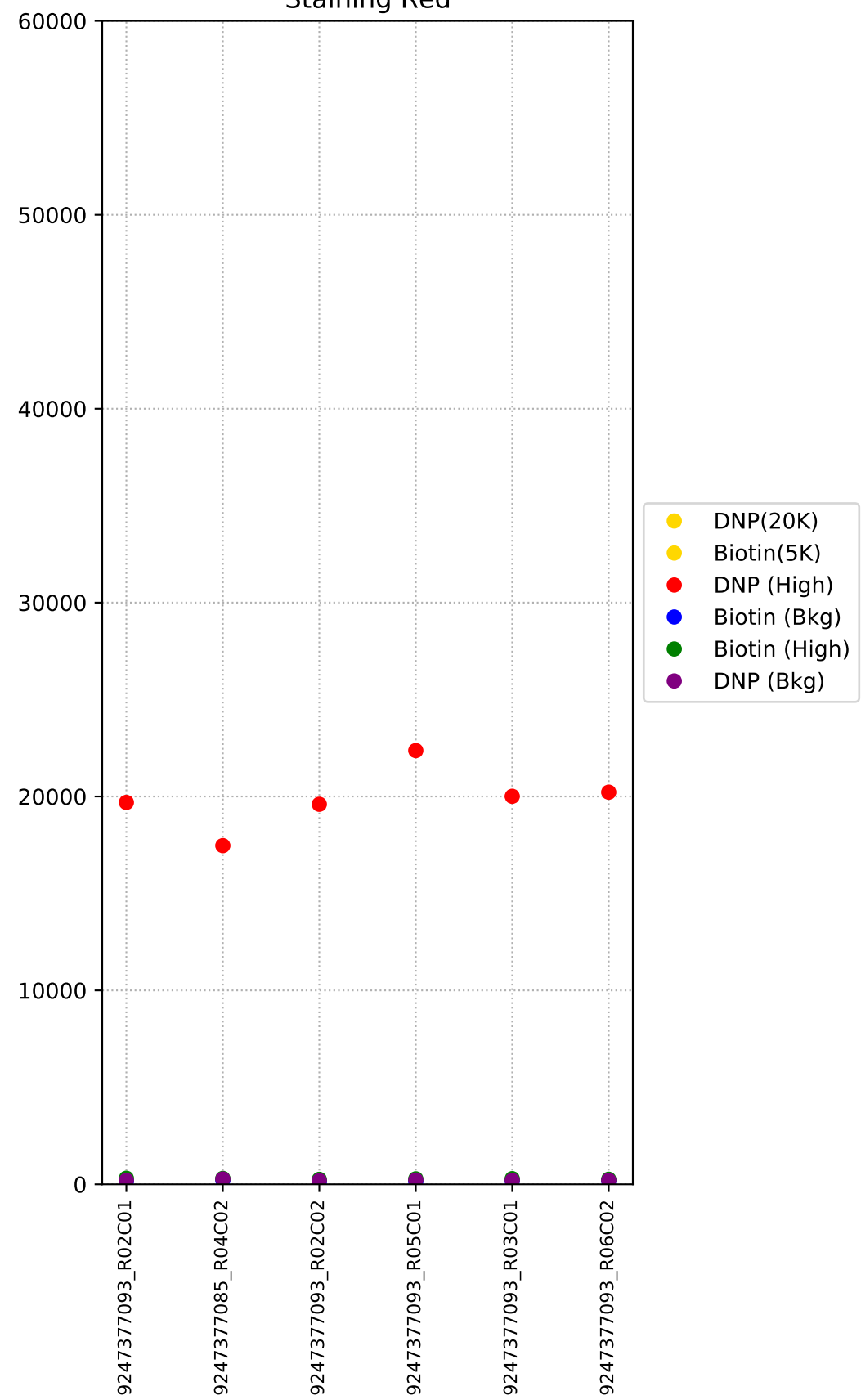
Log M versus U plot: Colors are the percent of probe failures per sample



Staining Green



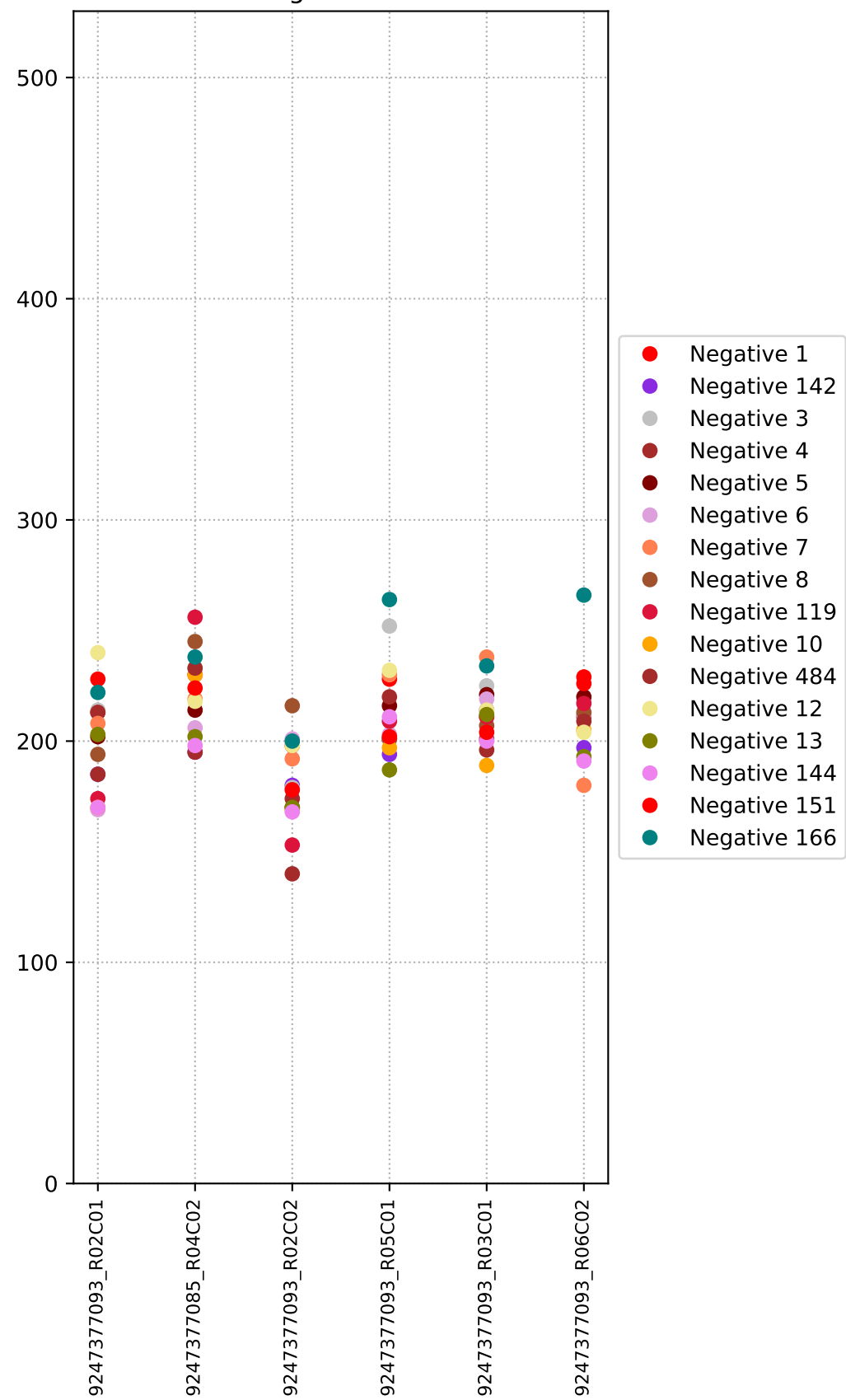
Staining Red



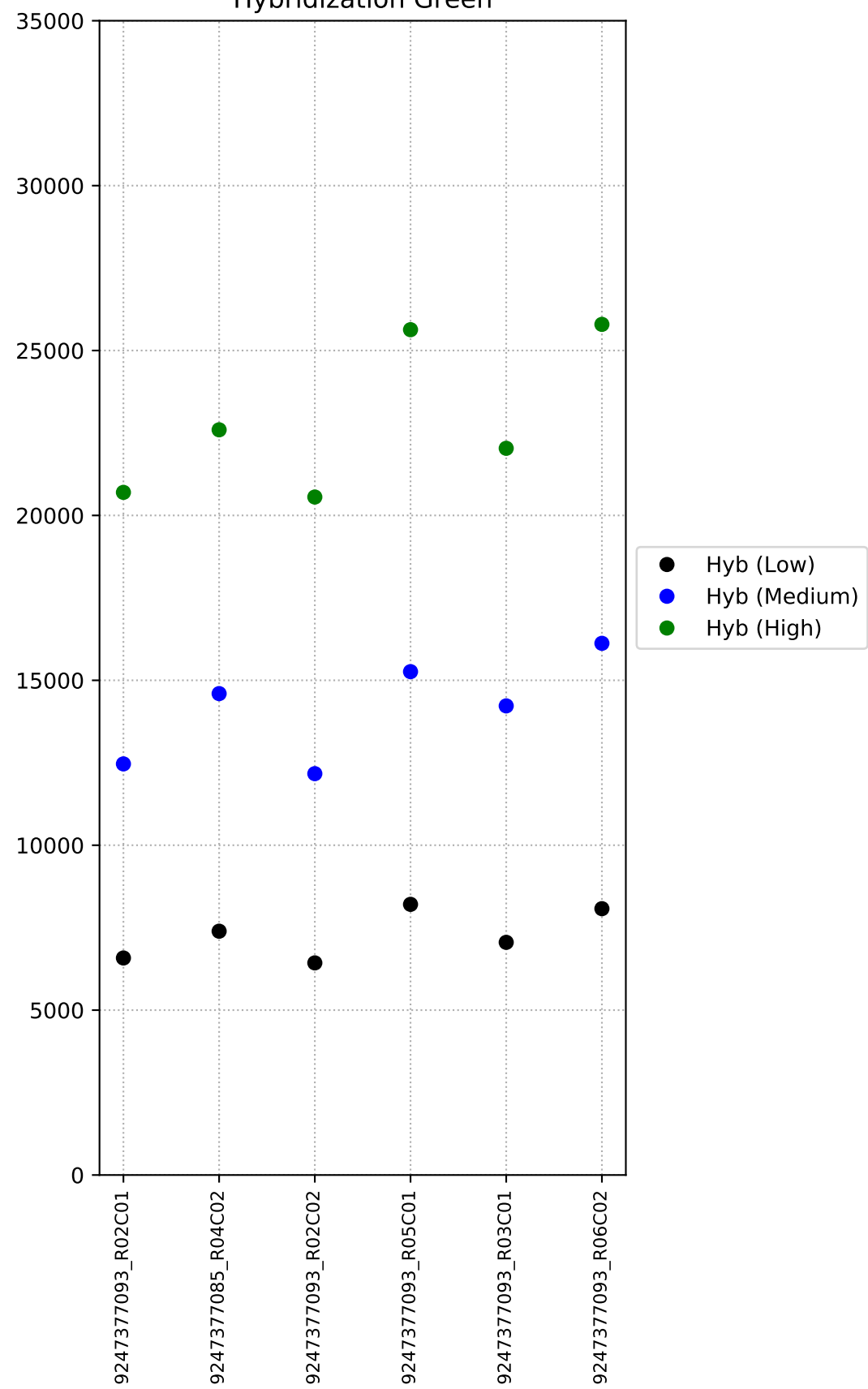
Negative Green



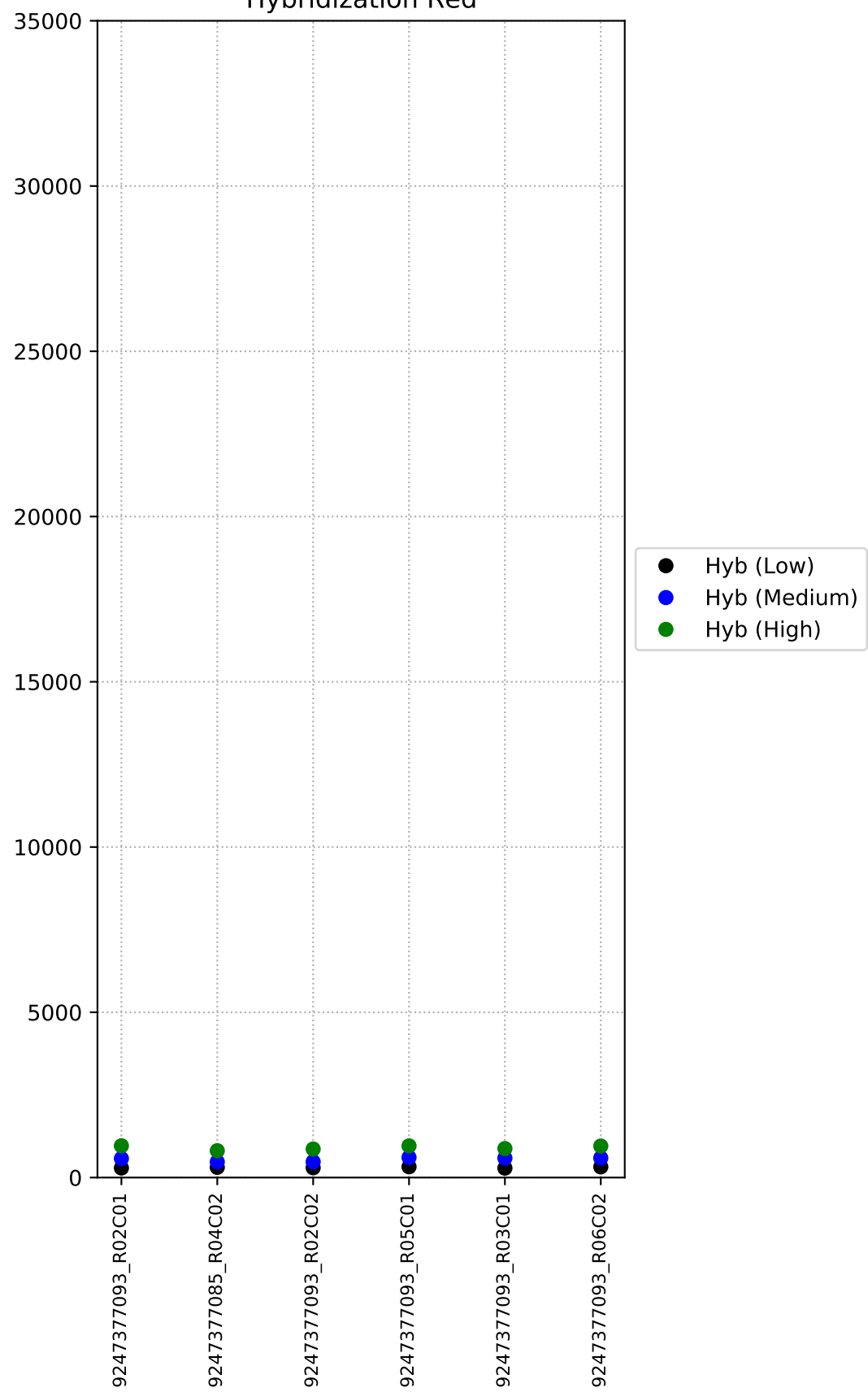
Negative Red



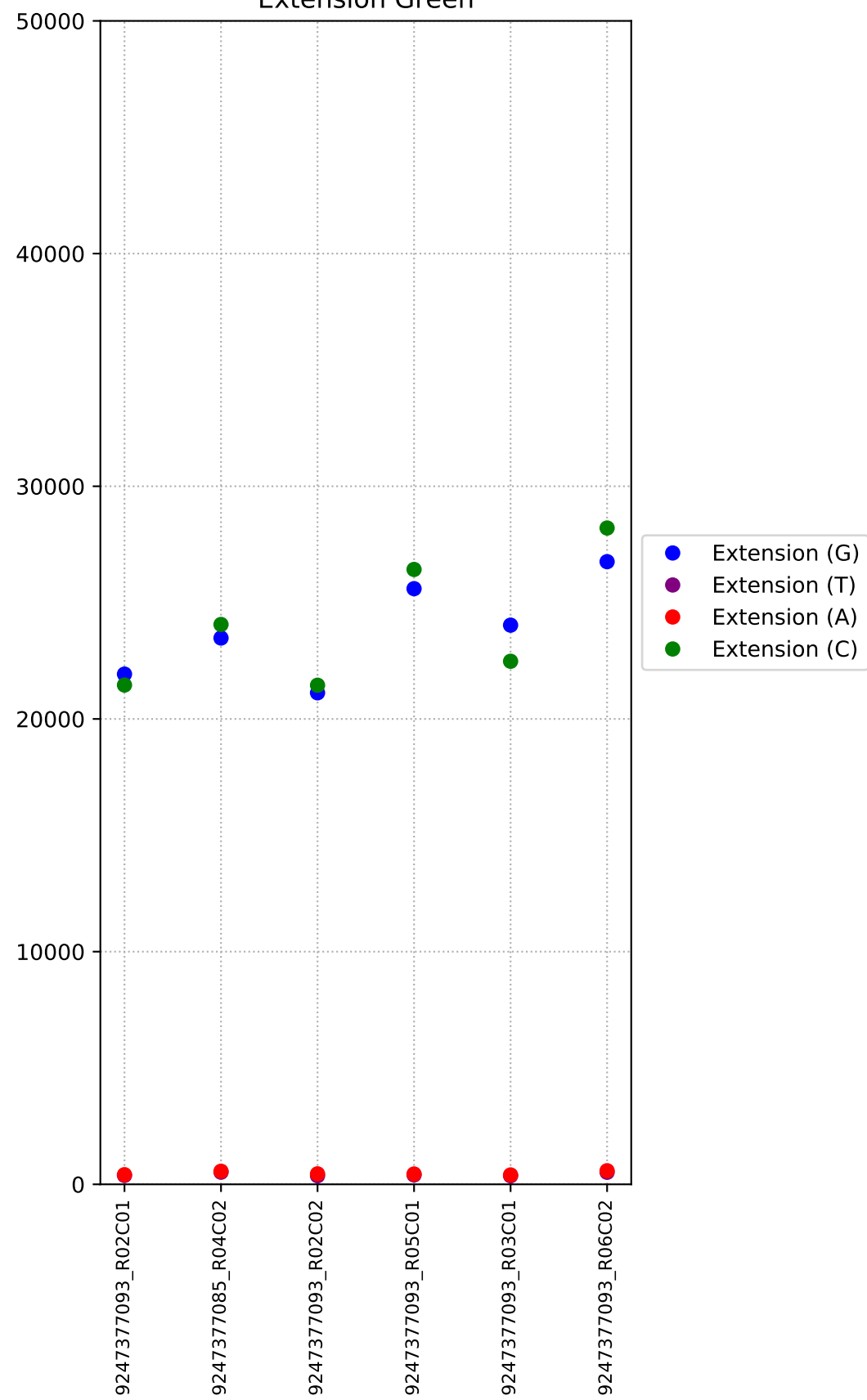
Hybridization Green



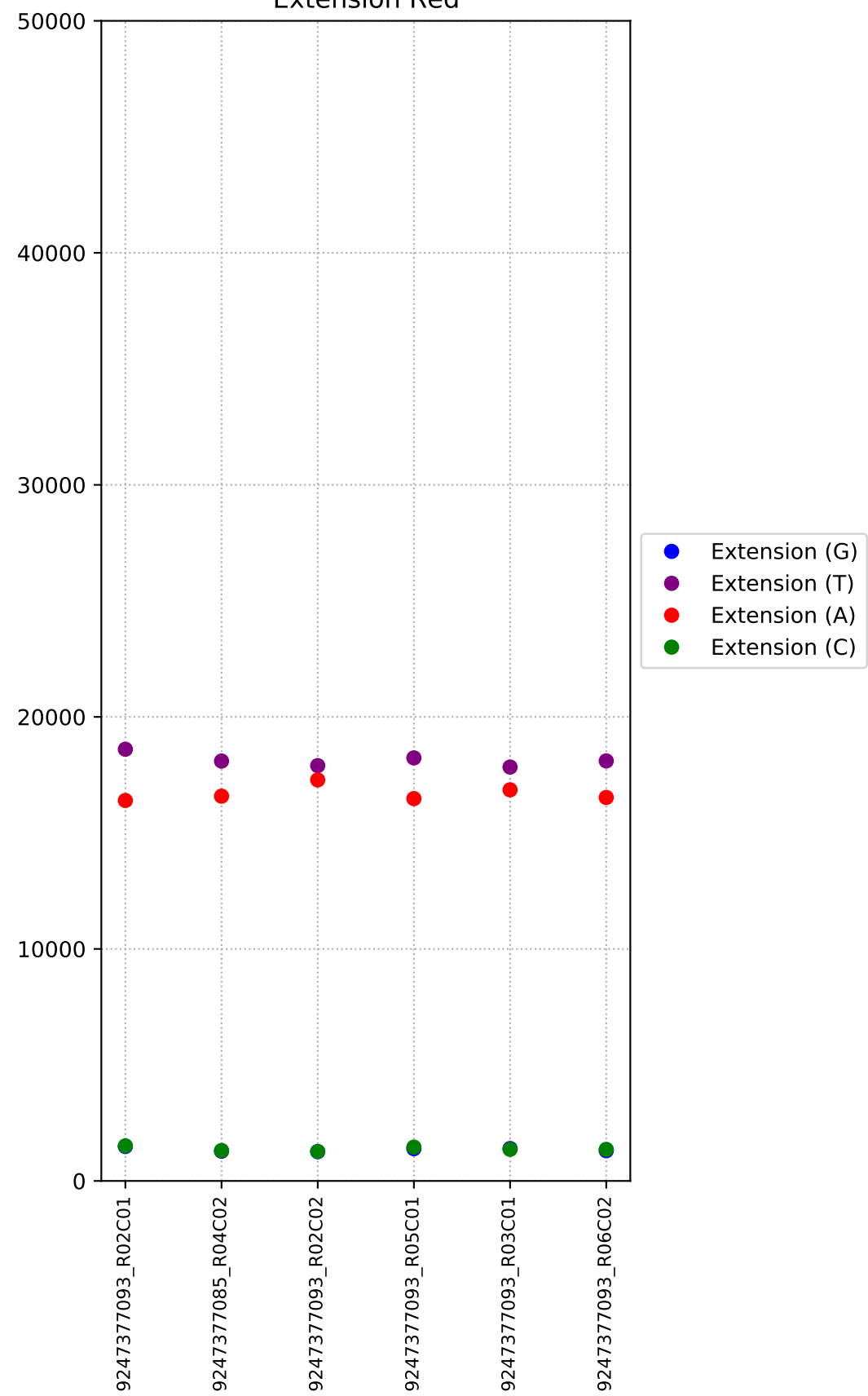
Hybridization Red



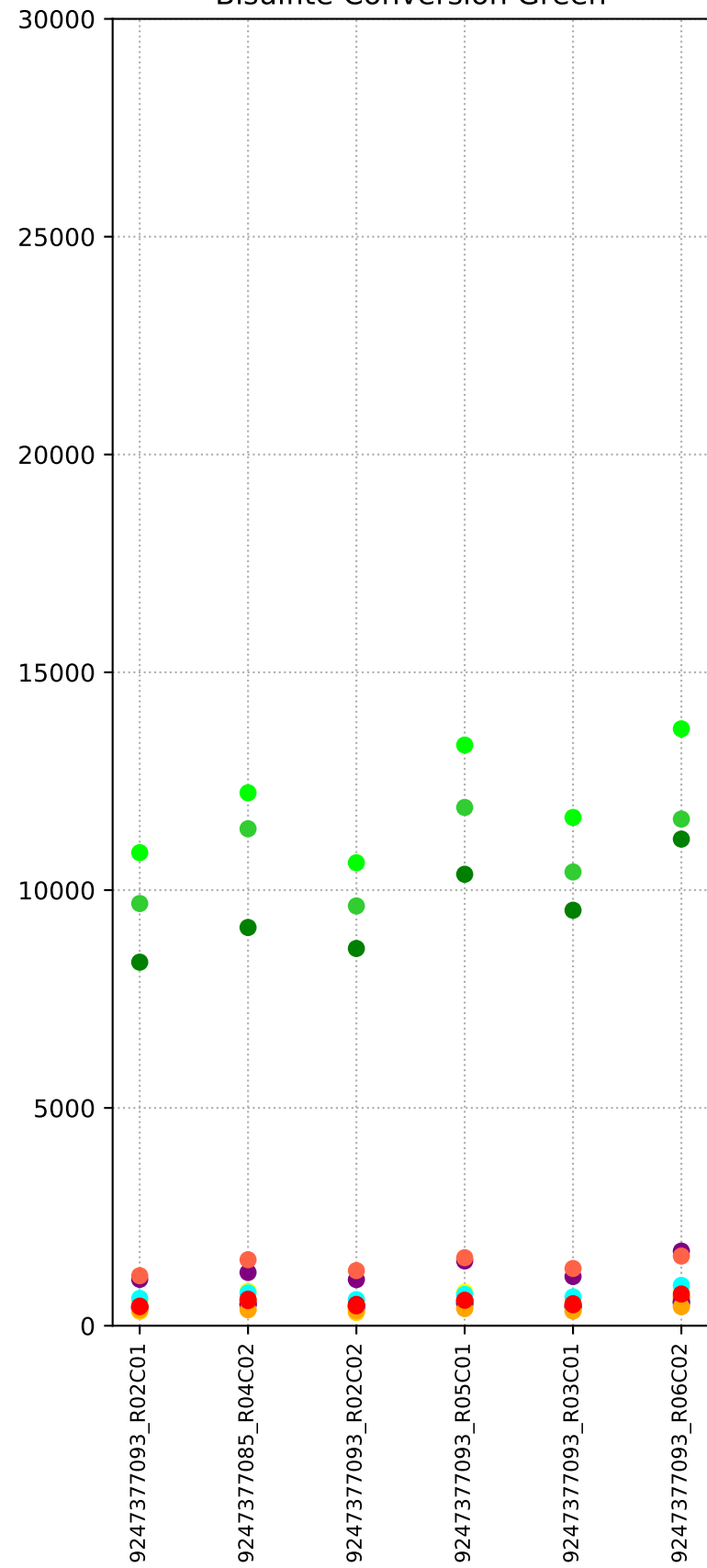
Extension Green



Extension Red

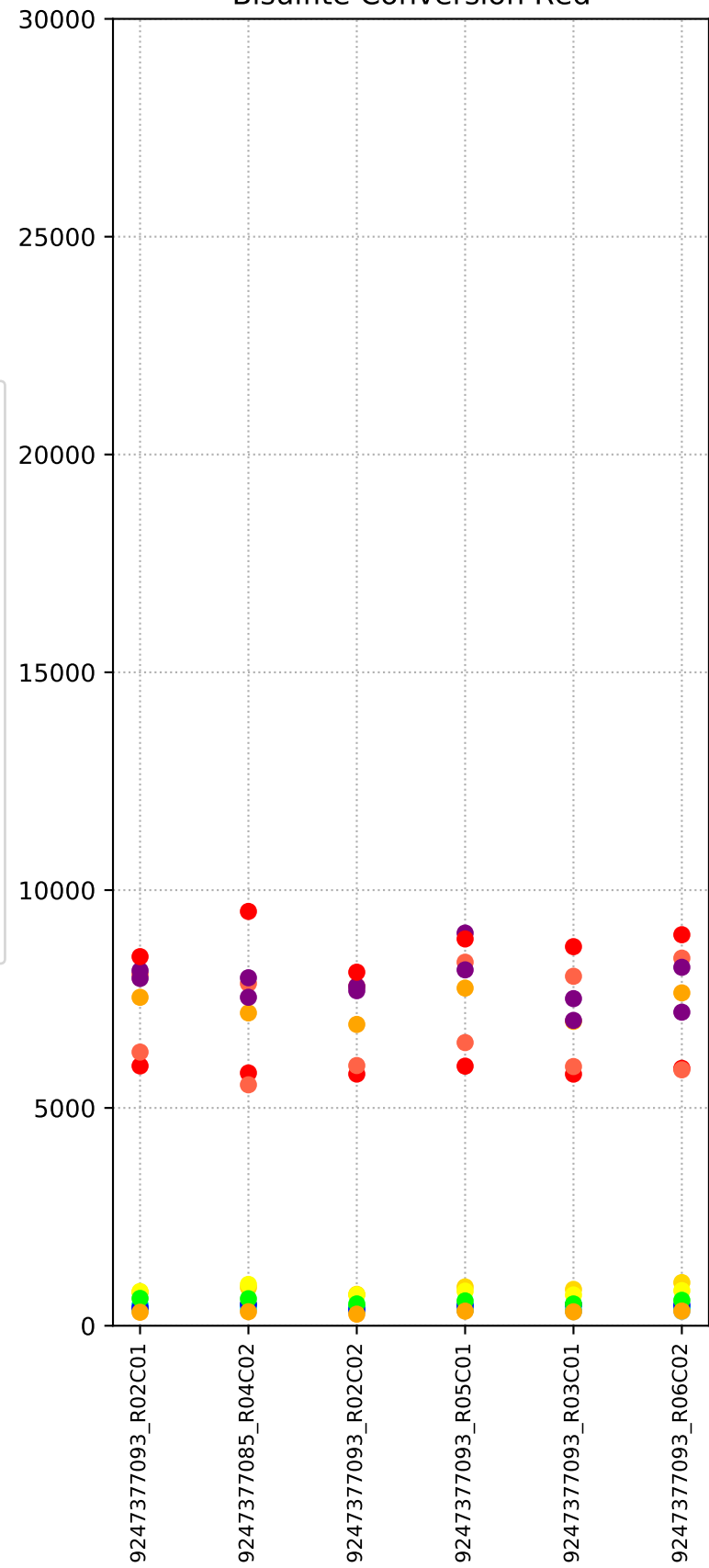


Bisulfite Conversion Green



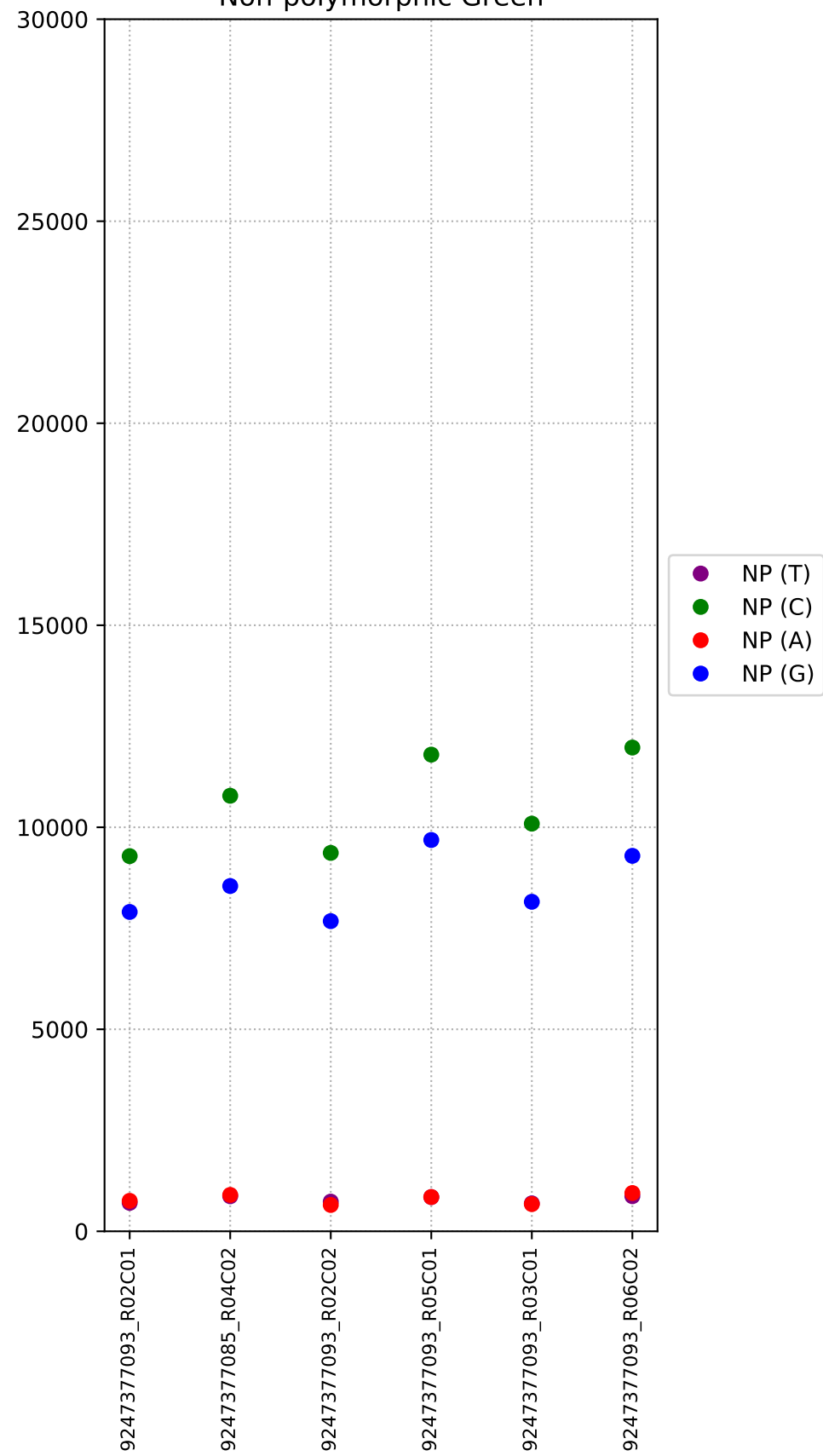
- BS Conversion I-U5
- BS Conversion I C1
- BS Conversion I-C2
- BS Conversion I-U2
- BS Conversion I-C6
- BS Conversion II-4
- BS Conversion I-U6
- BS Conversion I-U3
- BS Conversion II-1
- BS Conversion I U1
- BS Conversion I-C5
- BS Conversion I-C4
- BS Conversion I-C3
- BS Conversion I-U4
- BS Conversion II-2
- BS Conversion II-3

Bisulfite Conversion Red

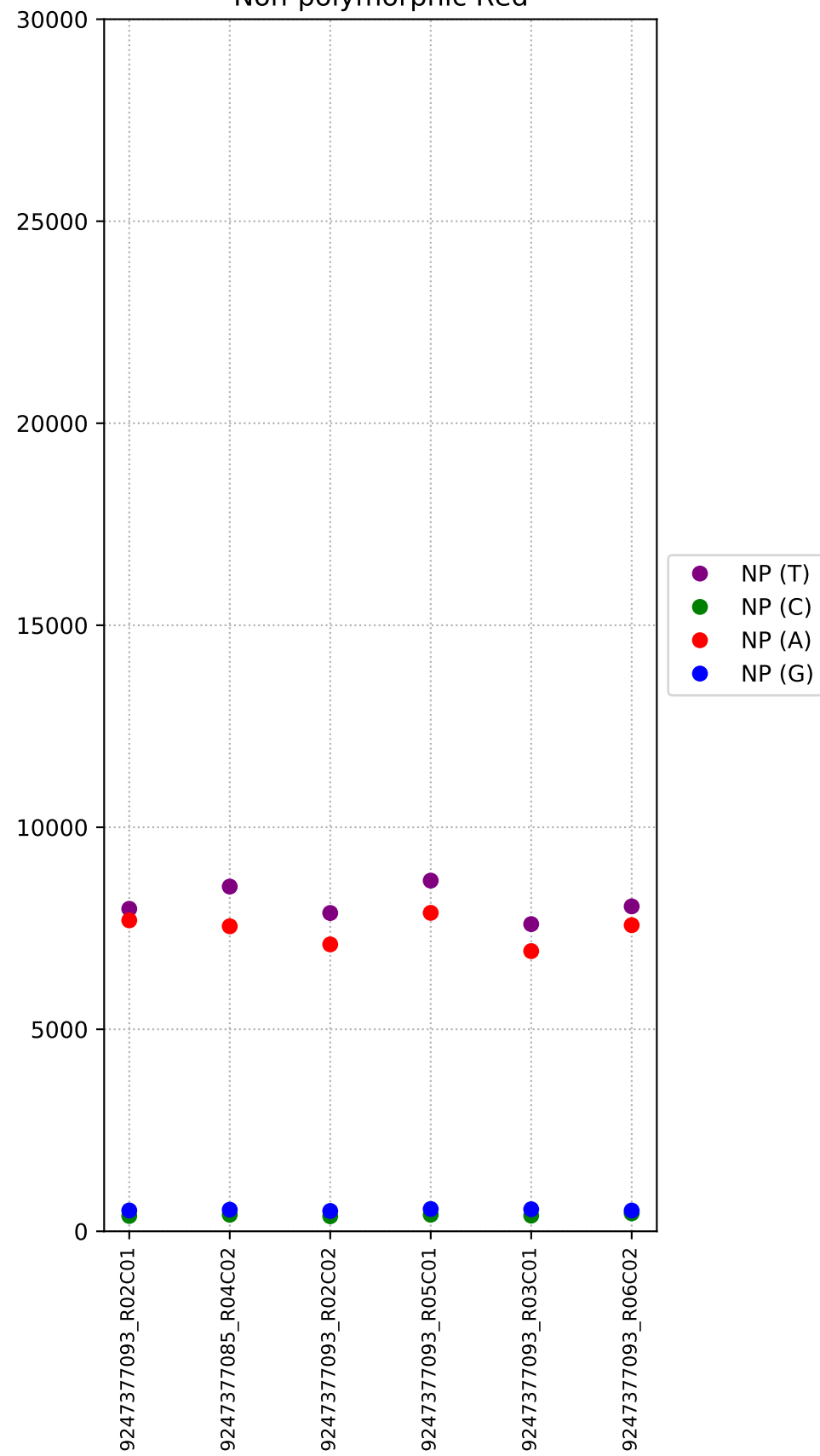


- BS Conversion I-U5
- BS Conversion I C1
- BS Conversion I-C2
- BS Conversion I-U2
- BS Conversion I-C6
- BS Conversion II-4
- BS Conversion I-U6
- BS Conversion I-U3
- BS Conversion II-1
- BS Conversion I U1
- BS Conversion I-C5
- BS Conversion I-C4
- BS Conversion I-C3
- BS Conversion I-U4
- BS Conversion II-2
- BS Conversion II-3

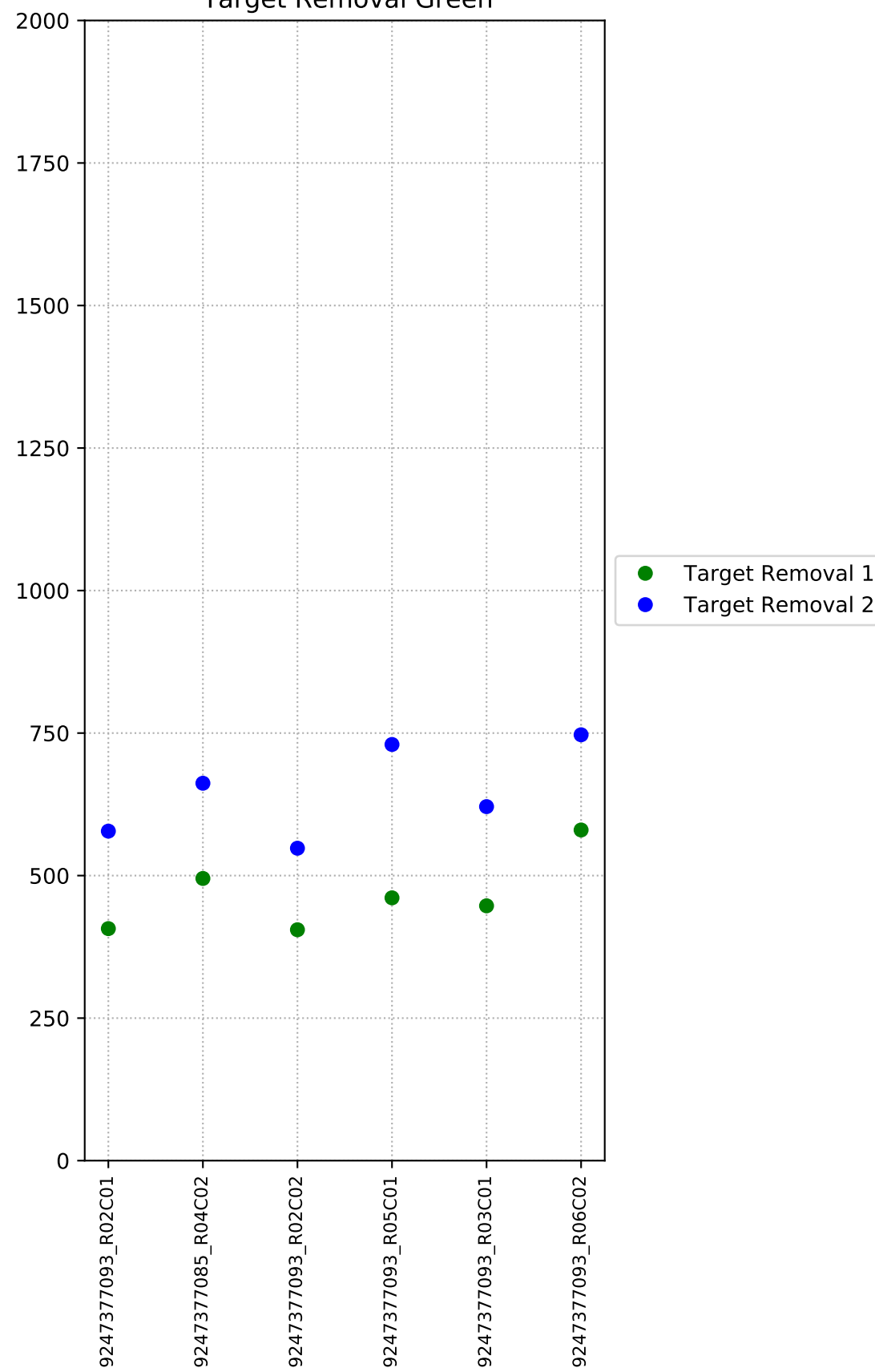
Non-polymorphic Green



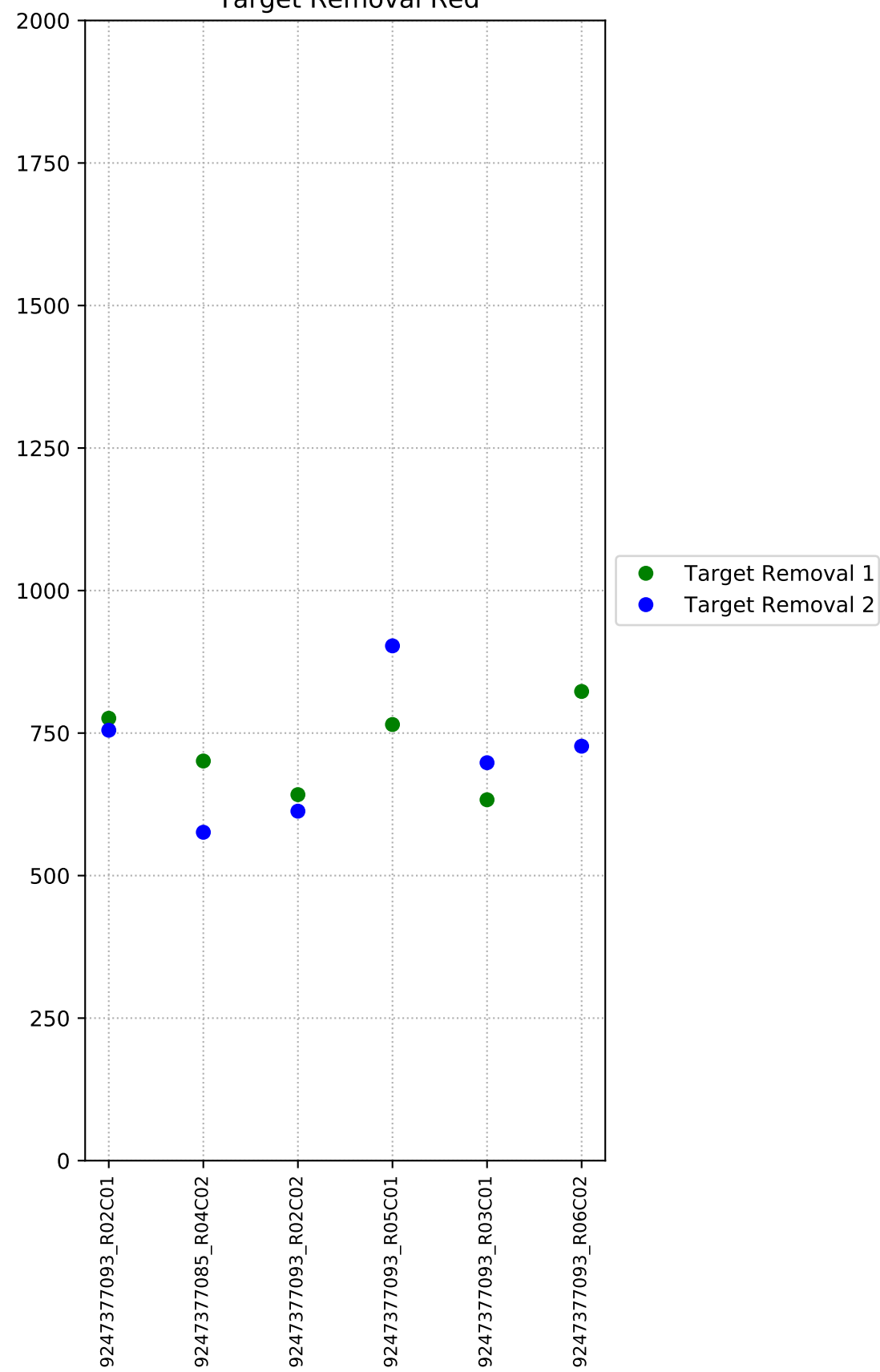
Non-polymorphic Red



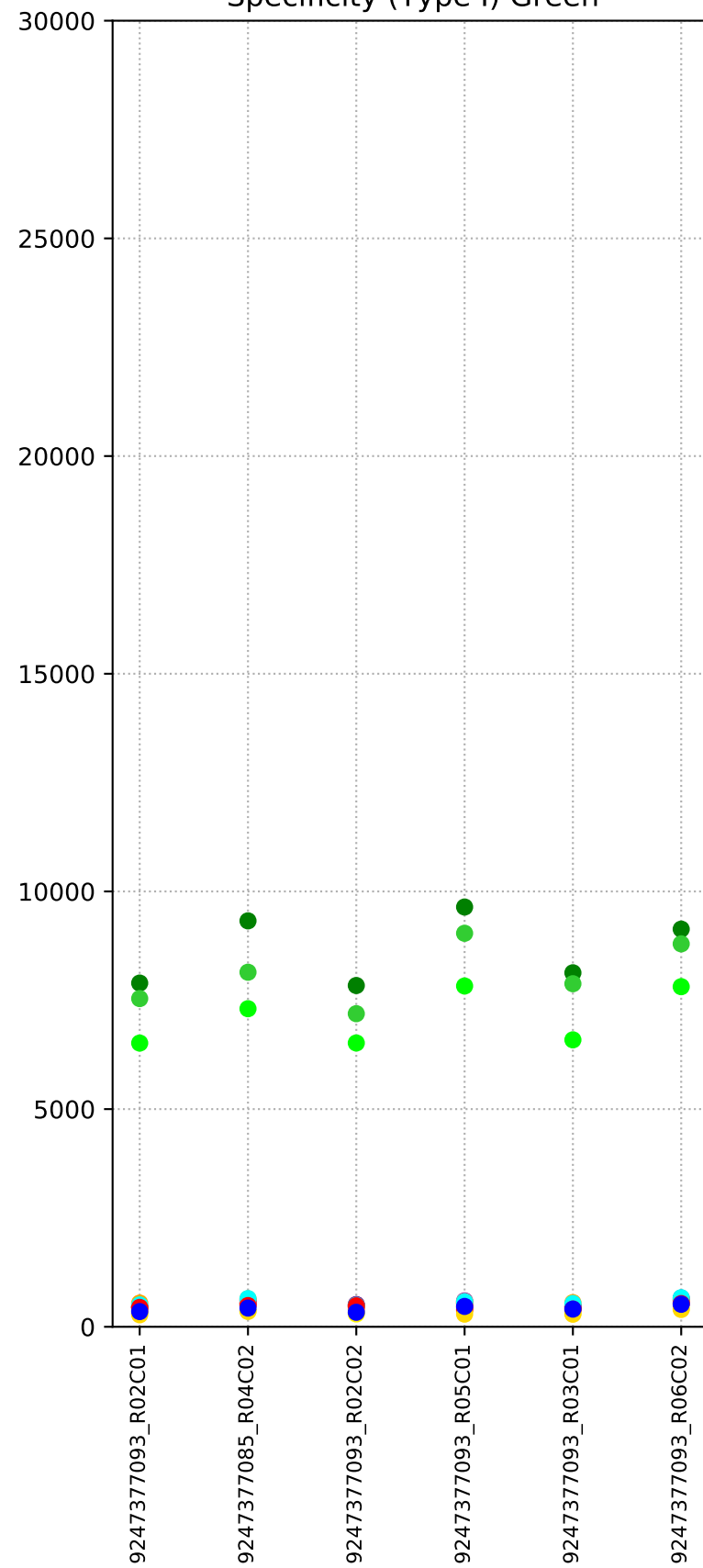
Target Removal Green



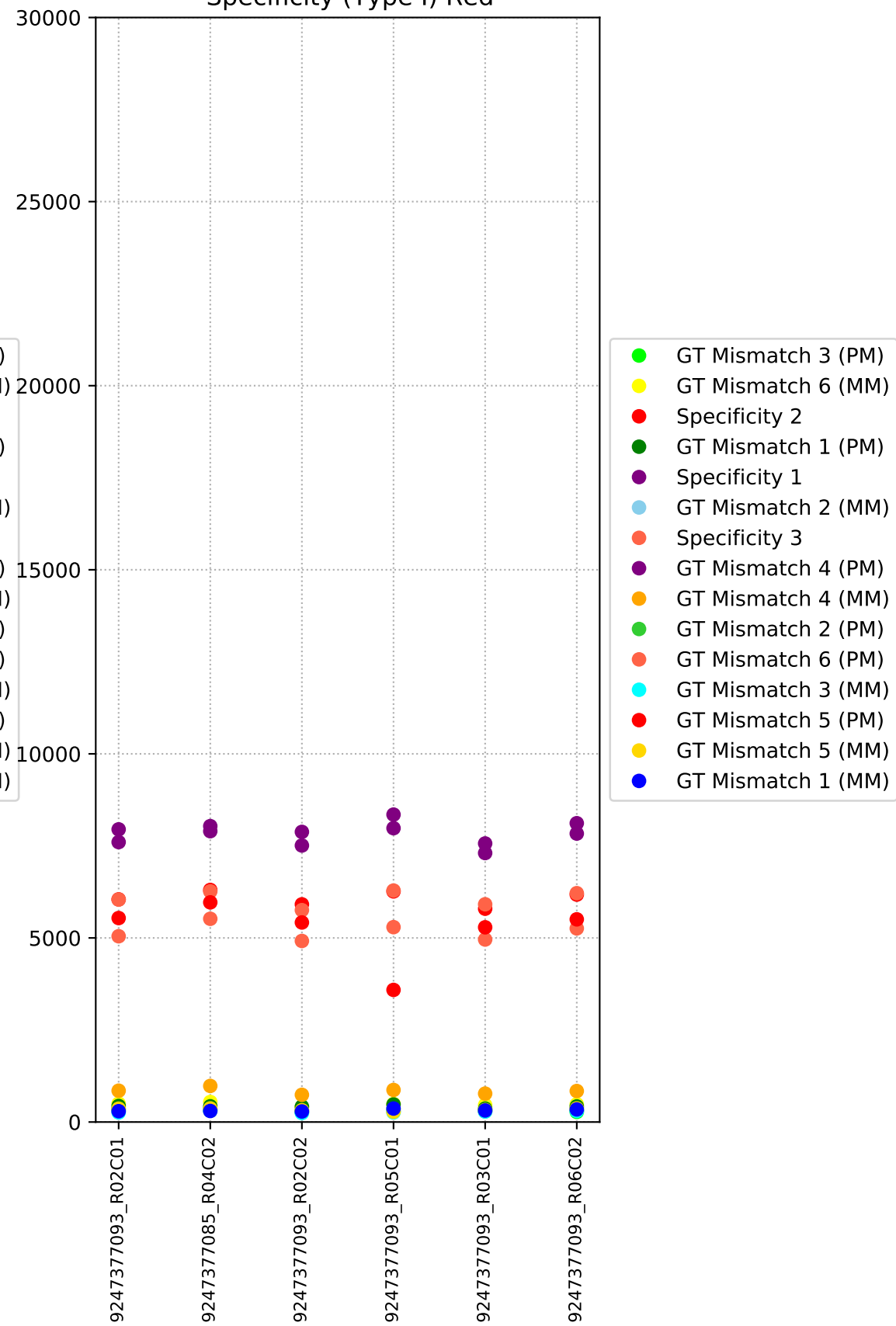
Target Removal Red



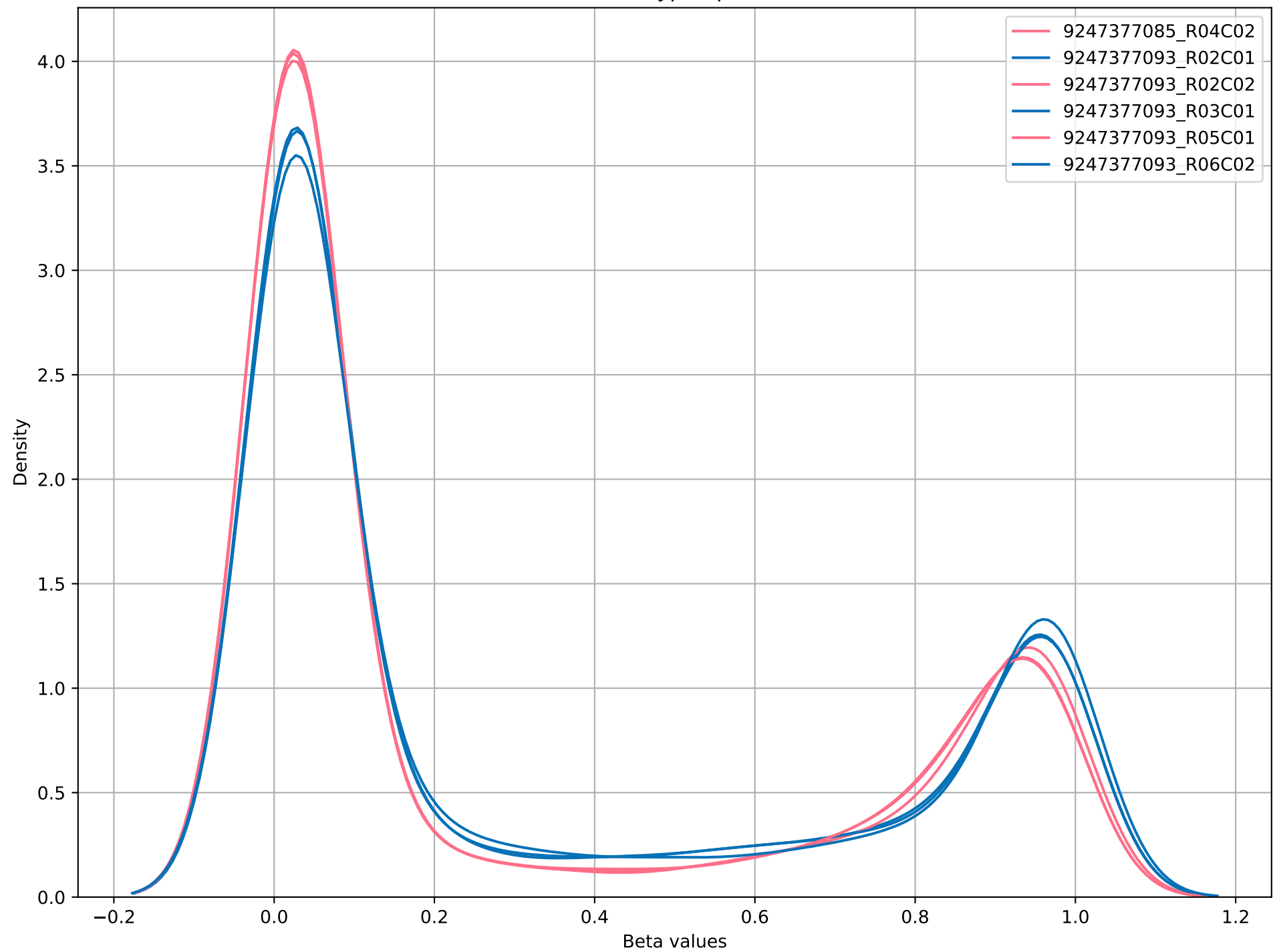
Specificity (Type I) Green



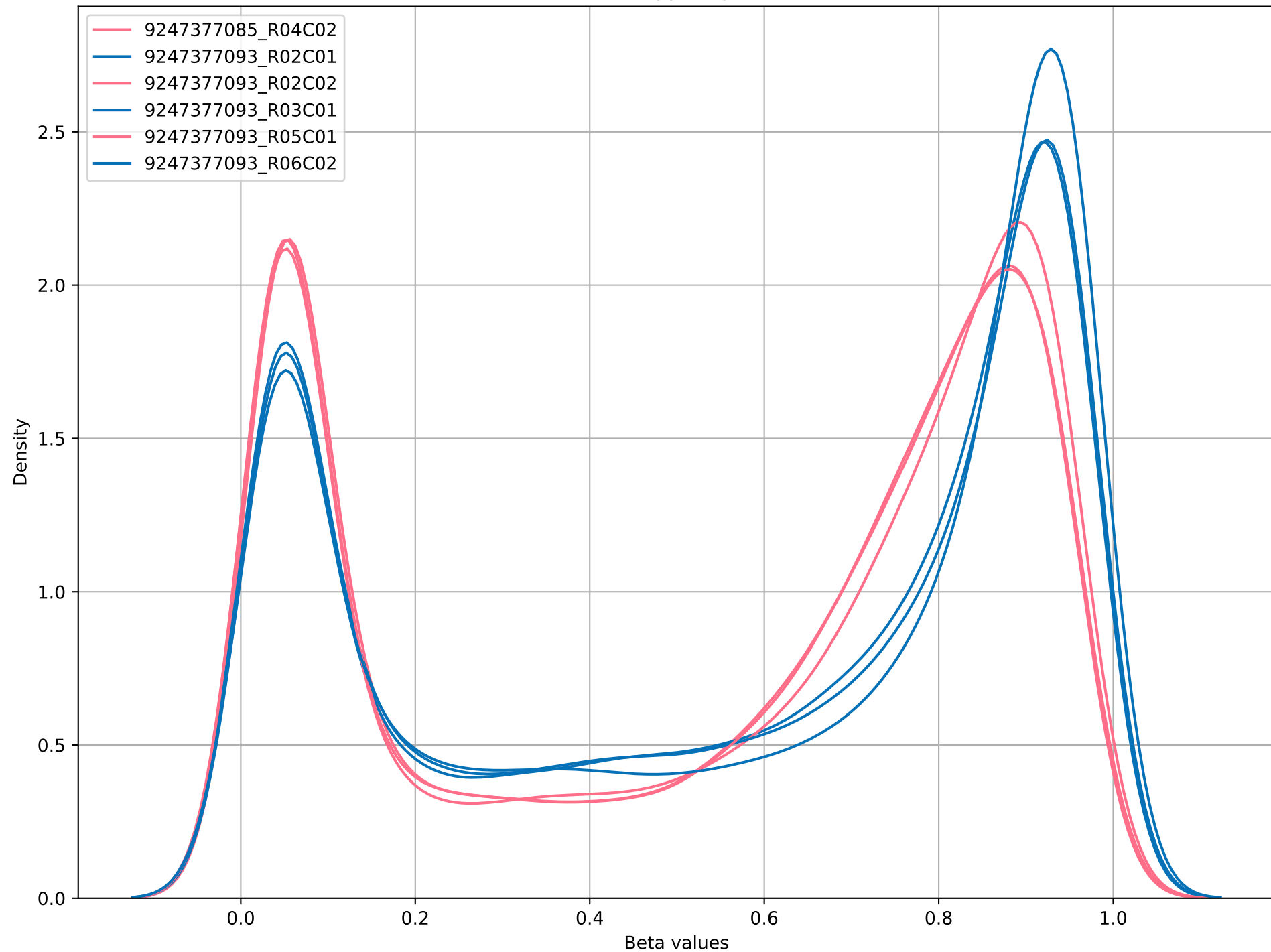
Specificity (Type I) Red



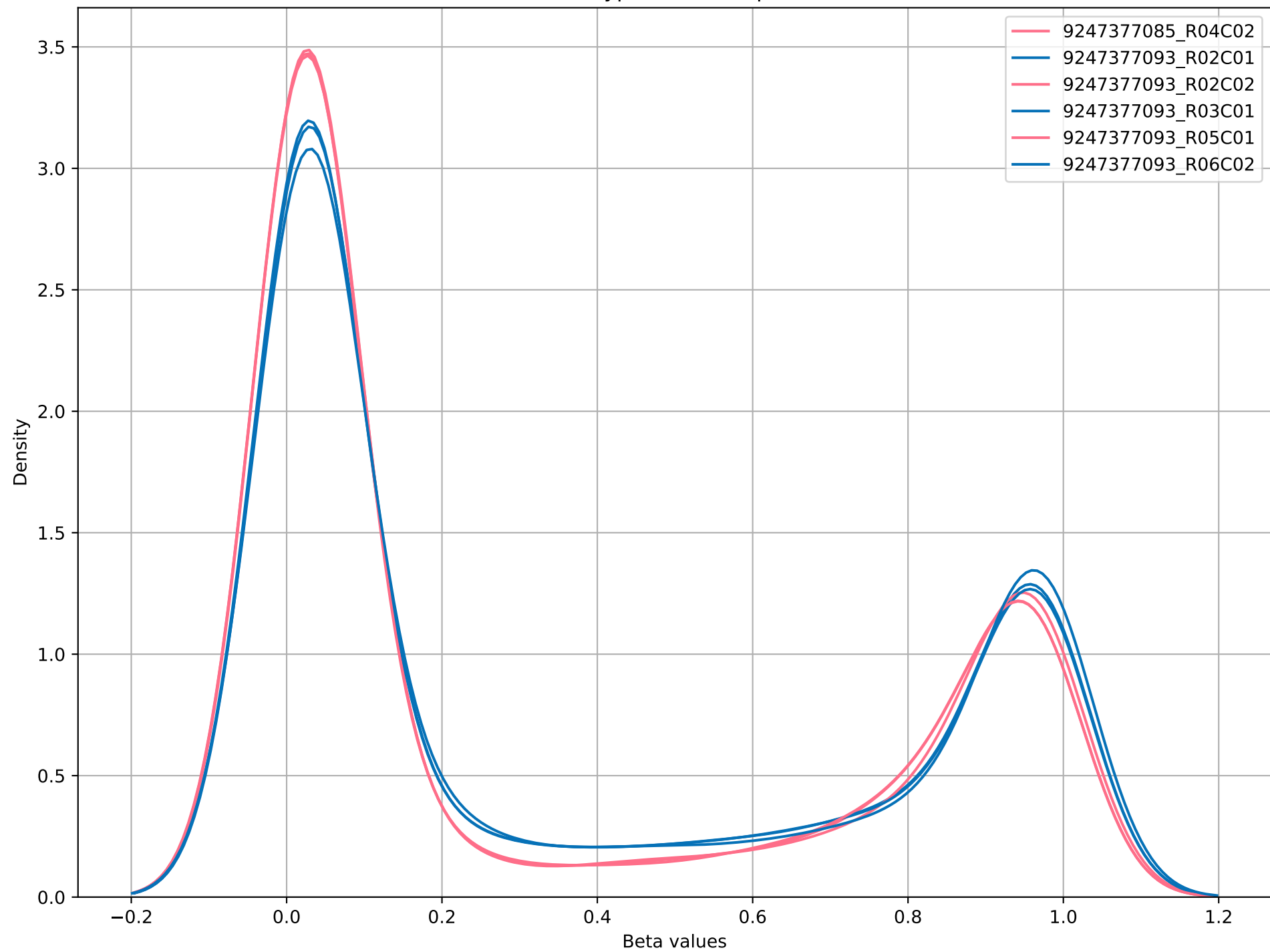
135476 type I probes



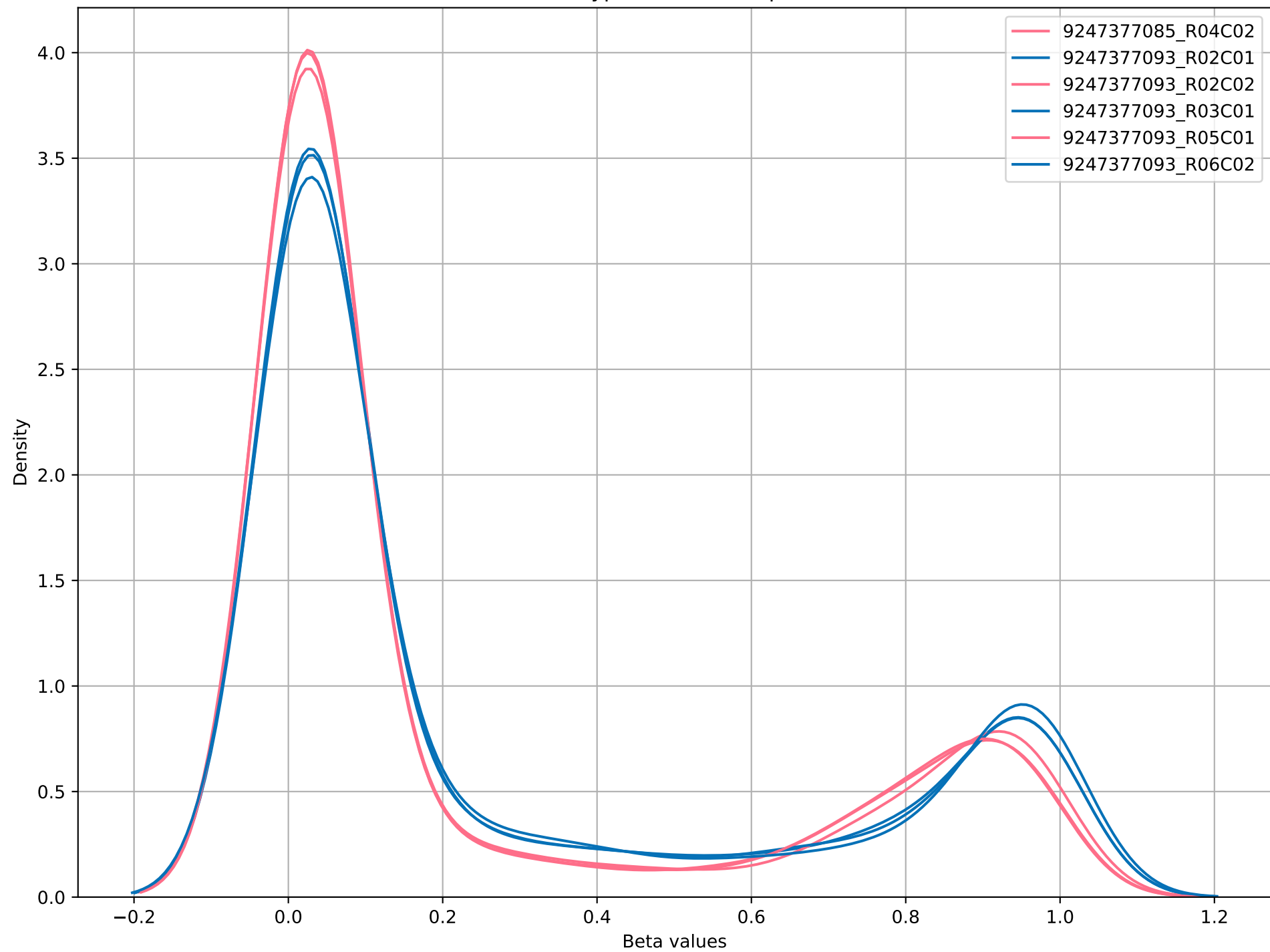
350036 type II probes



89187 type I Red (IR) probes



46289 type I Green (IG) probes



APPENDIX I: PROCESSING MESSAGES

15:39:07 - INFO - Found custom_tables and inserted into order: ['beta_density_plot', '9 columns (none)', '5 columns (none)', '6 columns (none)', '7 columns (none)', '8 columns (none)', 'detection_poobah', 'predict_sex', 'mds', 'auto_qc', 'qc_signal_intensity', 'M_vs_U_compare', 'M_vs_U', 'controls', 'probe_types']

15:39:08 - INFO - Data loaded

15:39:11 - INFO - Beta Density Plot

15:39:14 - INFO - Reading manifest file: HumanMethylation450k_15017482_v3.csv

15:39:20 - INFO - Beta MDS Plot

15:39:20 - INFO - QC signal intensity plot

15:39:20 - INFO - Control probes

15:39:23 - INFO - Betas by probe type

15:39:23 - INFO - Reading manifest file: HumanMethylation450k_15017482_v3.csv