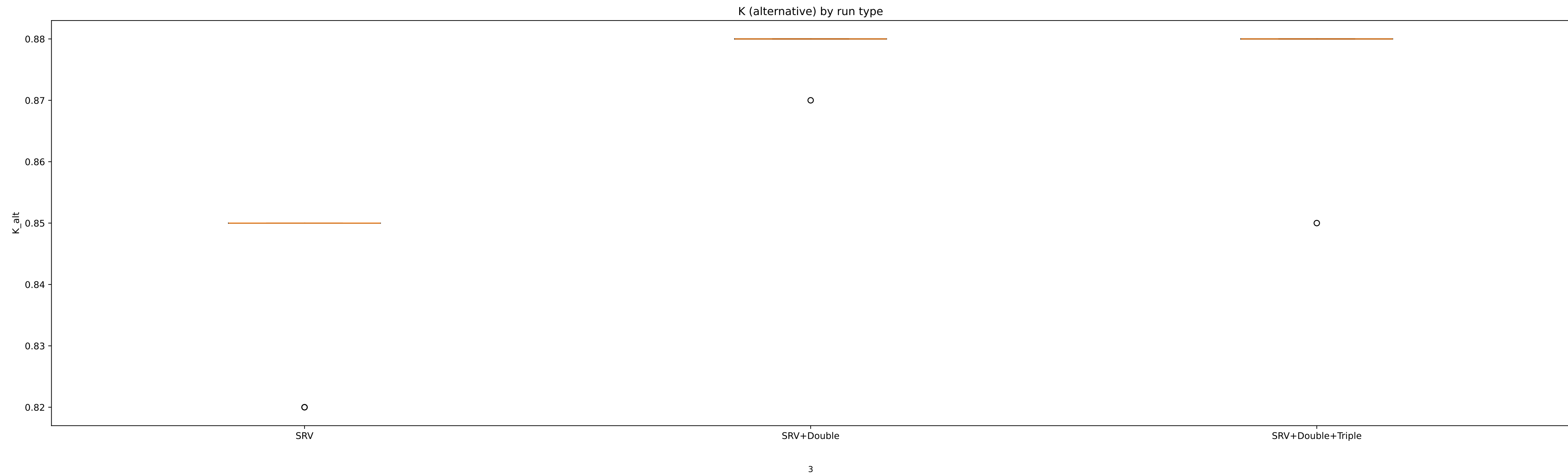# RELAX Combined Report

SRV vs SRV+Double vs SRV+Double+Triple
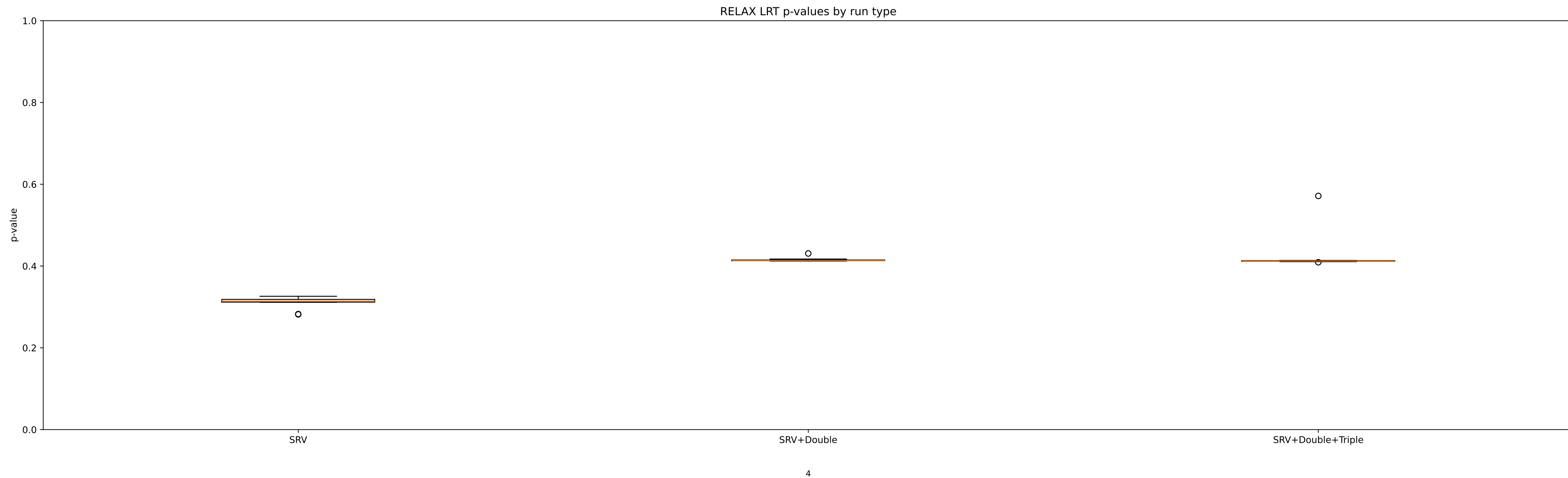
Includes:
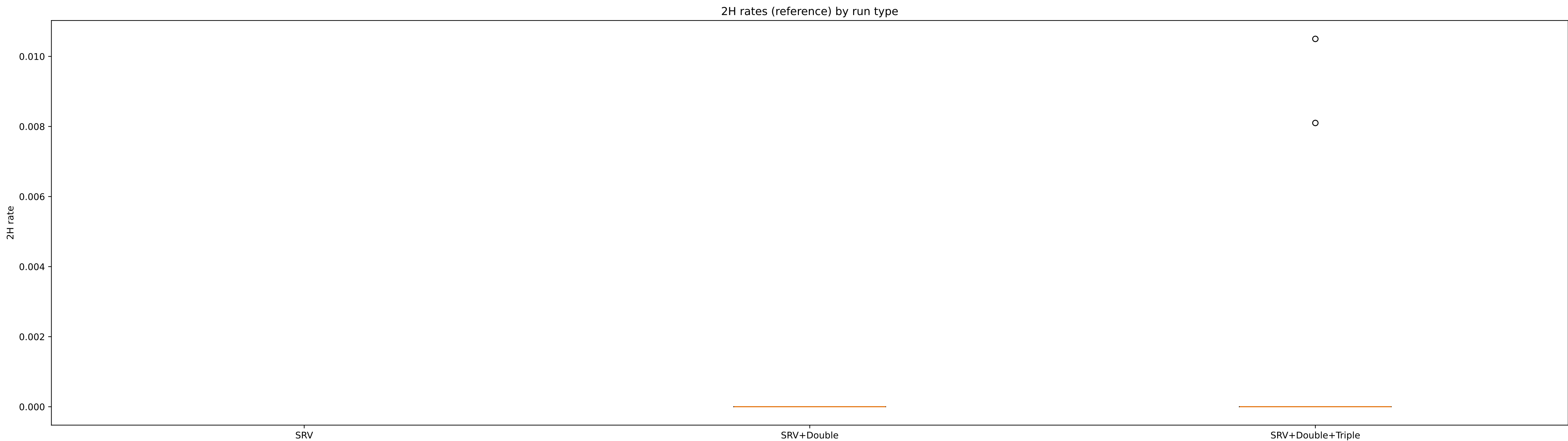
- Run-type summary

- Boxplots: K, p-values, 2H/3H

- Full omega/SRV/multihit tables (column-paged)

Run-type summary statistics

p_median	p_min	p_max	K_median	K_min	K_max	omega_ref_median	omega_test_median	warnings_count	2H_reference_median	2H_test_median
0.3144	0.2817	0.326	0.85	0.82	0.85	0.2062	0.2719	10	nan	nan
0.4136	0.4123	0.4307	0.88	0.87	0.88	0.2062	0.2719	10	0.0	0.0628
0.4122	0.4092	0.5715	0.88	0.85	0.88	0.2062	0.2719	10	0.0	0.0626

K (alternative) by run type

3

RELAX LRT p-values by run type

2H rates (reference) by run type

5

2H rates (test) by run type

3H rates (reference) by run type

SRV   SRV+Double   SRV+Double+Triple

3H rate

3H rates (test) by run type

3H rate

SRV

SRV+Double
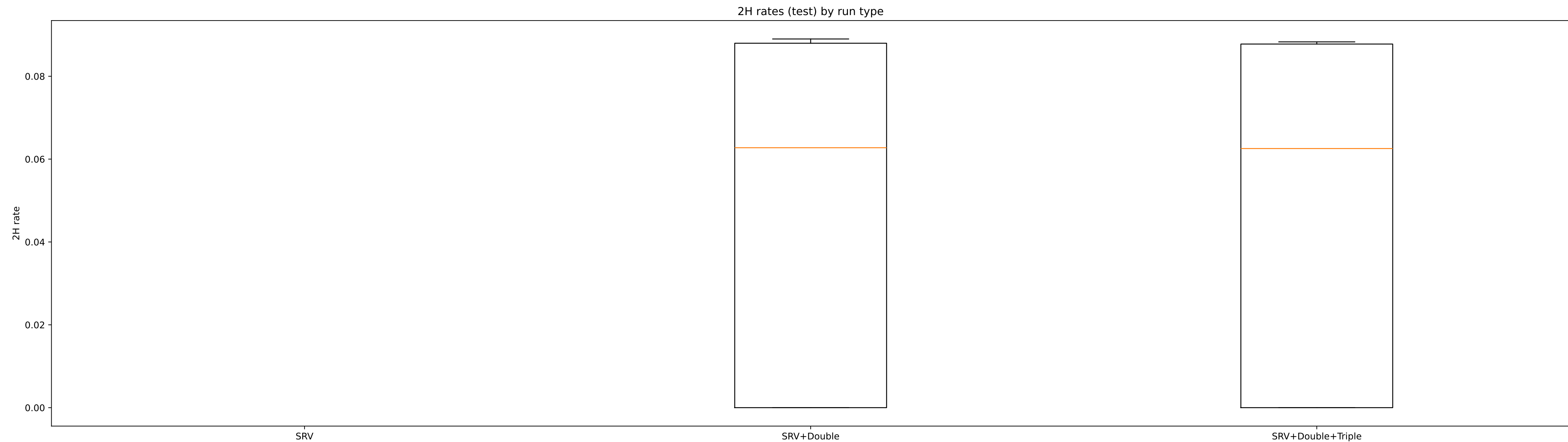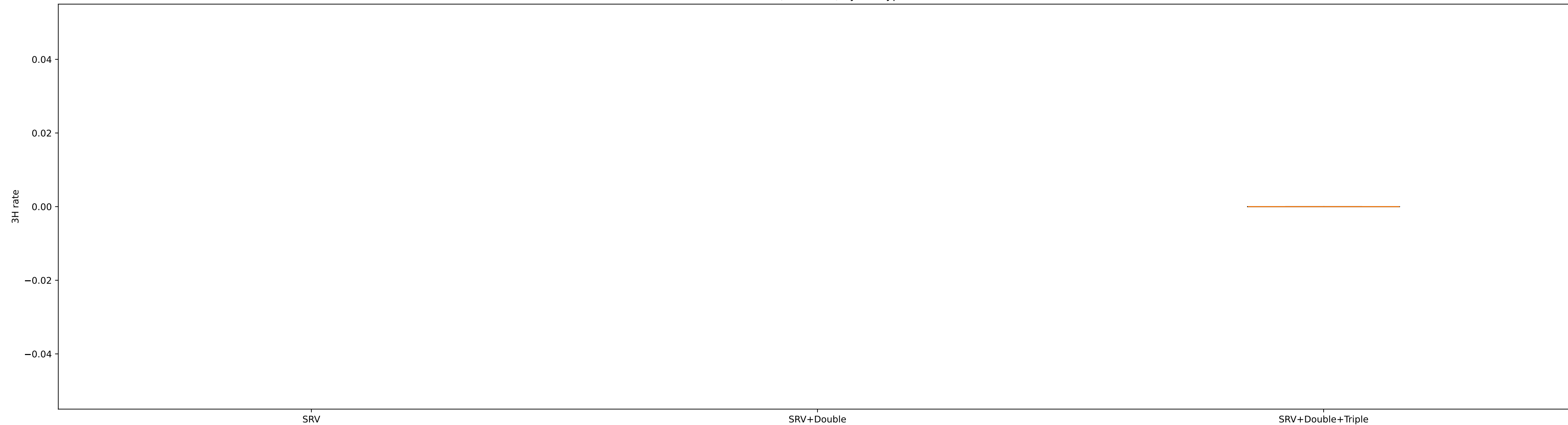
SRV+Double+Triple
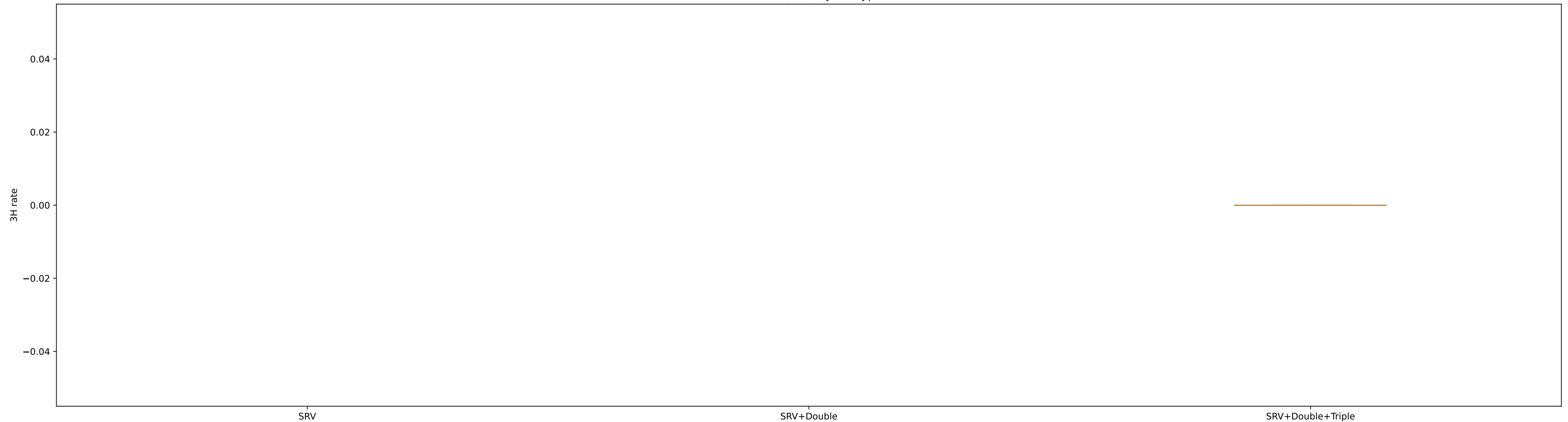
replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
1	0.315	0.85	0.2062	0.2719	
2	0.3209	0.85	0.2062	0.2719	
3	0.3132	0.85	0.2062	0.2719	
4	0.3162	0.85	0.2062	0.2719	
5	0.3139	0.85	0.2062	0.2719	
6	0.2817	0.82	0.2062	0.2719	
7	0.326	0.85	0.2062	0.2719	
8	0.3112	0.85	0.2062	0.2719	
9	0.2826	0.82	0.2062	0.2719	
10	0.3191	0.85	0.2062	0.2719	

	replicate	global_dNdS_te	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1		0.414	0.88	0.2062	0.2719	
	2		0.4171	0.87	0.2062	0.2719	
	3		0.4132	0.88	0.2062	0.2719	
	4		0.413	0.88	0.2062	0.2719	
	5		0.4307	0.88	0.2062	0.2719	
	6		0.4123	0.88	0.2062	0.2719	
	7		0.4134	0.88	0.2062	0.2719	
	8		0.4151	0.88	0.2062	0.2719	
	9		0.4134	0.88	0.2062	0.2719	
	10		0.4139	0.88	0.2062	0.2719	

	replicate	p_value	K_alt	global_dNdS_reference	global_dNdS_test	
	1	0.4136	0.88	0.2062	0.2719	
	2	0.4119	0.88	0.2062	0.2719	
	3	0.4116	0.88	0.2062	0.2719	
	4	0.4092	0.88	0.2062	0.2719	
	5	0.4132	0.88	0.2062	0.2719	
	6	0.4118	0.88	0.2062	0.2719	
	7	0.4107	0.88	0.2062	0.2719	
	8	0.4126	0.88	0.2062	0.2719	
	9	0.4132	0.88	0.2062	0.2719	
	10	0.5715	0.85	0.2062	0.2719	

Ω-class distributions (all) (cols 1-7/7)

test	Negative selection	0.21	8.074	SRV+Double
test	Negative selection	0.242	91.926	SRV+Double
test	Negative selection	0.17	8.074	SRV+Double
test	Negative selection	0.2	91.926	SRV+Double
reference	Diversifying selection	1.012	0.0	SRV+Double
reference	Negative selection	0.208	100.0	SRV+Double
reference	Negative selection	0.214	0.0	SRV+Double
test	Diversifying selection	1.012	0.0	SRV+Double
test	Negative selection	0.208	100.0	SRV+Double
test	Negative selection	0.214	0.0	SRV+Double
reference	Diversifying selection	1.01	0.0	SRV+Double
reference	Negative selection	0.167	0.0	SRV+Double
reference	Negative selection	0.198	100.0	SRV+Double
test	Diversifying selection	1.008	0.0	SRV+Double
test	Diversifying selection	1.01	0.0	SRV+Double
test	Negative selection	0.206	0.0	SRV+Double
test	Negative selection	0.24	100.0	SRV+Double
test	Negative selection	0.167	0.0	SRV+Double
test	Negative selection	0.198	100.0	SRV+Double
reference	Diversifying selection	1.009	0.0	SRV+Double
reference	Negative selection	0.119	0.0	SRV+Double
reference	Negative selection	0.208	100.0	SRV+Double
test	Diversifying selection	1.009	0.0	SRV+Double
test	Negative selection	0.119	0.0	SRV+Double
test	Negative selection	0.208	100.0	SRV+Double
reference	Diversifying selection	1.009	0.0	SRV+Double
reference	Negative selection	0.17	0.697	SRV+Double
reference	Negative selection	0.198	99.303	SRV+Double
test	Diversifying selection	1.008	0.0	SRV+Double
test	Diversifying selection	1.009	0.0	SRV+Double
test	Negative selection	0.21	0.697	SRV+Double
test	Negative selection	0.24	99.303	SRV+Double
test	Negative selection	0.17	0.697	SRV+Double
test	Negative selection	0.198	99.303	SRV+Double
reference	Diversifying selection	1.01	0.0	SRV+Double
reference	Negative selection	0.206	92.583	SRV+Double
reference	Negative selection	0.232	7.417	SRV+Double
test	Diversifying selection	1.01	0.0	SRV+Double
test	Negative selection	0.206	92.583	SRV+Double
test	Negative selection	0.232	7.417	SRV+Double
reference	Diversifying selection	1.003	0.0	SRV+Double
reference	Negative selection	0.165	6.489	SRV+Double
reference	Negative selection	0.2	93.511	SRV+Double
test	Diversifying selection	1.003	0.0	SRV+Double
test	Diversifying selection	1.003	0.0	SRV+Double
test	Negative selection	0.204	6.489	SRV+Double
test	Negative selection	0.242	93.511	SRV+Double
test	Negative selection	0.165	6.489	SRV+Double
test	Negative selection	0.2	93.511	SRV+Double
reference	Diversifying selection	1.008	0.0	SRV+Double

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	class_id	syn_rate	proportion_per cent	run_type	
	1	0.0	19.504	SRV	
	2	0.988	75.103	SRV	
	3	4.79	5.393	SRV	
	1	0.0	19.894	SRV	
	2	0.999	74.934	SRV	
	3	4.864	5.172	SRV	
	1	0.0	19.691	SRV	
	2	0.992	74.97	SRV	
	3	4.797	5.339	SRV	
	1	0.0	19.786	SRV	
	2	0.995	74.942	SRV	
	3	4.822	5.272	SRV	
	1	0.0	19.67	SRV	
	2	0.993	75.045	SRV	
	3	4.826	5.284	SRV	
	1	0.0	19.405	SRV	
	2	0.984	75.057	SRV	
	3	4.721	5.538	SRV	
	1	0.0	19.92	SRV	
	2	1.0	74.961	SRV	
	3	4.891	5.119	SRV	
	1	0.0	19.552	SRV	
	2	0.989	75.079	SRV	
	3	4.791	5.369	SRV	
	1	0.0	19.47	SRV	
	2	0.987	75.086	SRV	
	3	4.76	5.444	SRV	
	1	0.0	19.813	SRV	
	2	0.997	74.972	SRV	
	3	4.846	5.215	SRV	

Multihit (2H/3H) rates (all) (cols 1-6/6)

test	2H	0.0624	SRV+Double		
reference	2H	0.0	SRV+Double		
test	2H	0.088	SRV+Double		
test	2H	0.0	SRV+Double		
reference	2H	0.0105	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.0626	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.0883	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.0617	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.0872	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.0626	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.0883	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.0627	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.088	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.0631	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		
reference	2H	0.0	SRV+Double+Triple		
reference	3H	0.0	SRV+Double+Triple		
test	2H	0.0882	SRV+Double+Triple		
test	2H	0.0	SRV+Double+Triple		
test	3H	0.0	SRV+Double+Triple		