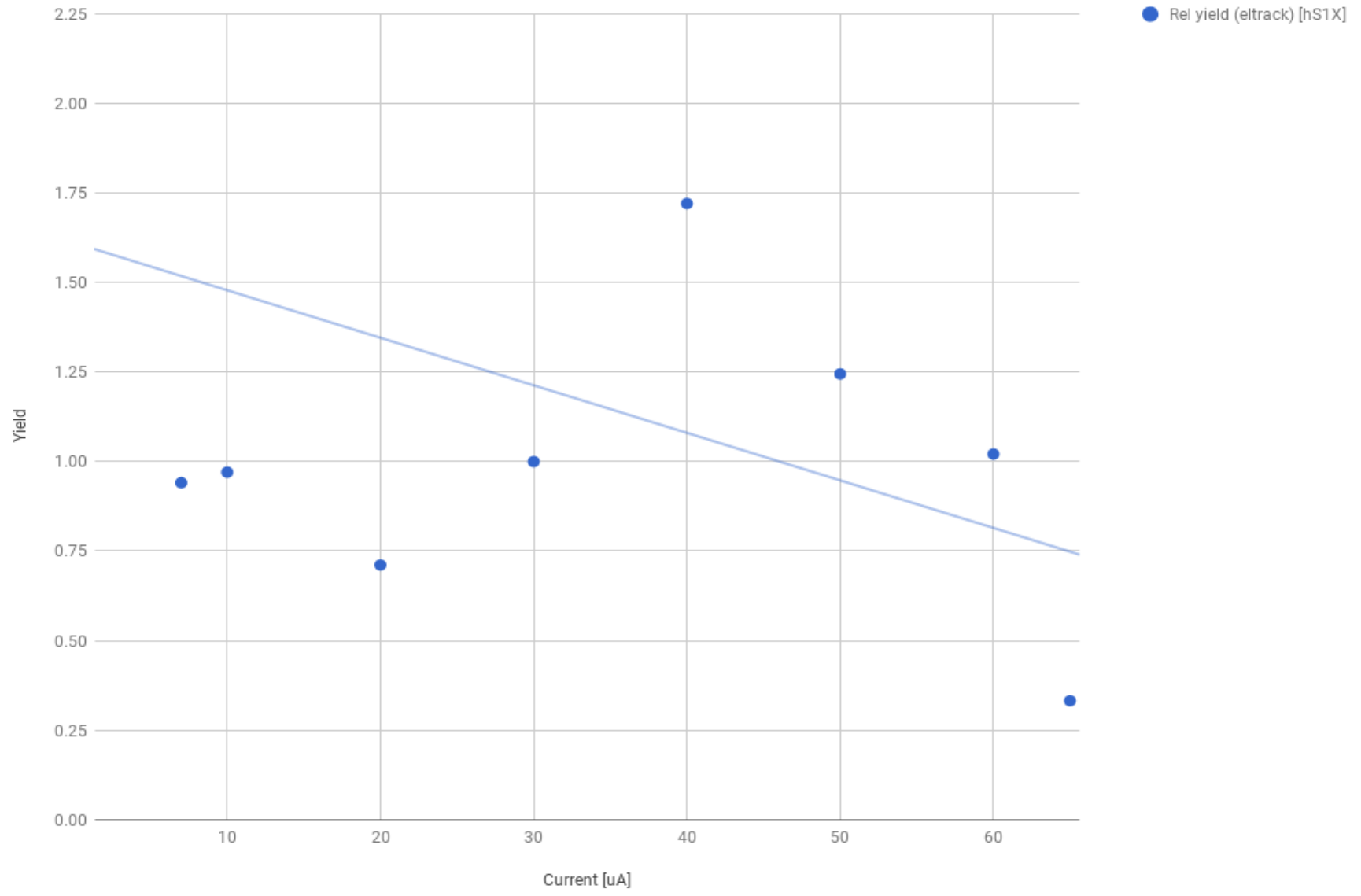


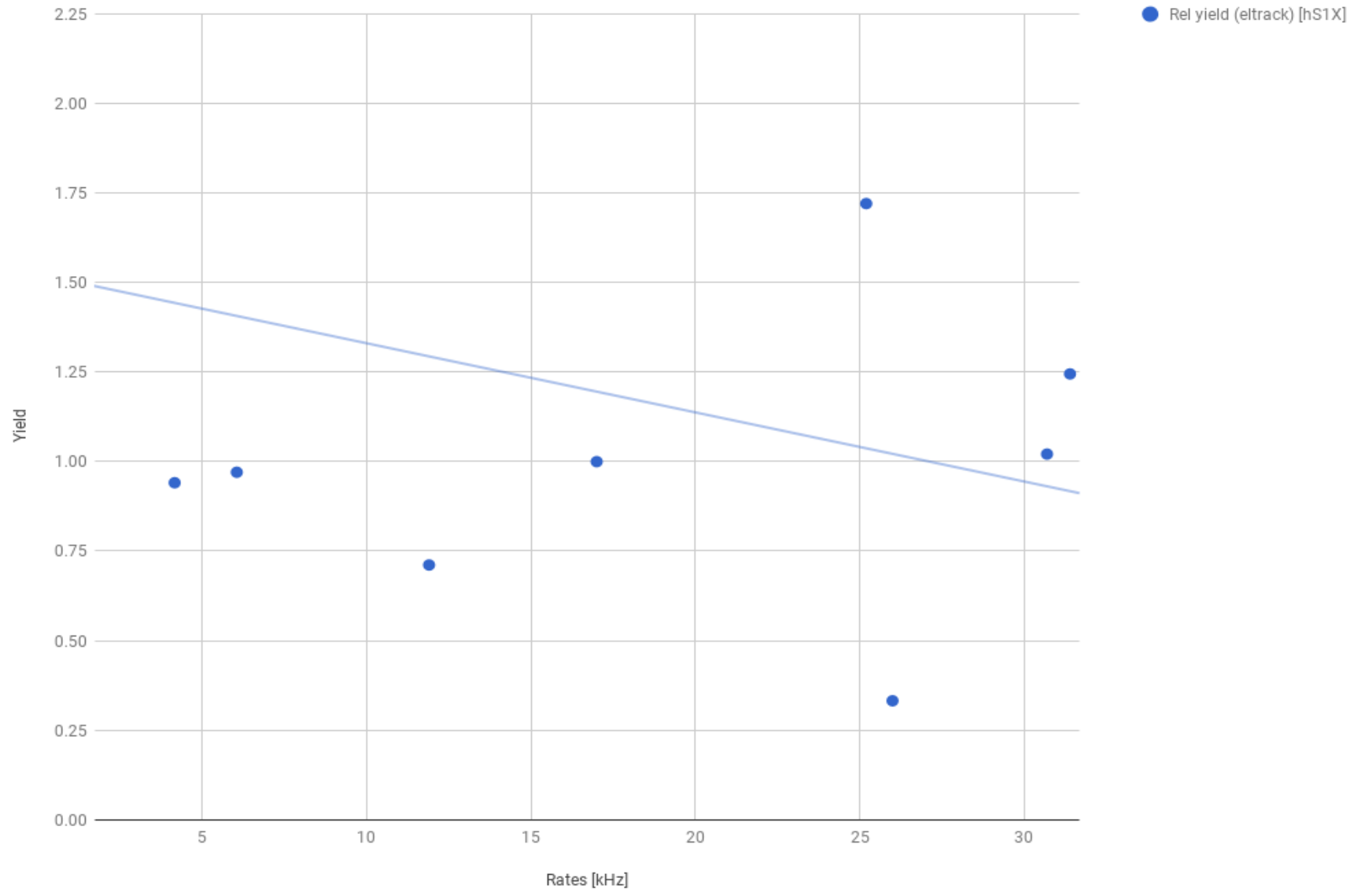
Events from root trees																								
Run Number	elclean	elreal	eltrack (hS1X)	total time	time beam on	ratio of time	Current [uA]	Charge [uC]	Charge (offset) [uC]	yield (elclean)	Rel yield (elclean)	Rate (elclean) [kHz]	yield (elreal)	Rel yield (elreal)	Rate (elreal) [kHz]	yield (eltrack)	Rel yield (eltrack)	Rate (hS1X) [kHz]	hPRE100	hPRE150	Electronic LT	CPU LT	Single e Tracking Efficiency	
1415	1.9E+04	2.78E+04	1.29E+05	600	405	0.68	2	810	891	2.93E+01	1.36E-01	0.245	4.29E+01	1.99E-01	0.36	1.9E+02	1.48E-01	2.03						
1416	5.98E+04	8.62E+04	3.92E+05	840	205	0.24	7	1435	1476	5.88E+01	2.79E-01	0.615	8.51E+01	2.62E-01	0.9	3.86E+02	3.01E-01	4.16	4.81E+04	4.81E+04	1.00E+00	0.8186	0.9991	
1417	1.02E+05	1.47E+05	6.44E+05	420	225	0.54	10	2250	2295	1.03E+02	4.91E-01	0.945	1.49E+02	4.93E-01	1.37	6.52E+02	5.09E-01	6.05	2.55E+05	2.55E+05	1.00E+00	0.4432	0.9900	
1418	2.07E+05	1.60E+05	1.27E+06	360	225	0.63	20	4500	4545	1.55E+02	7.38E-01	1.93	1.20E+02	3.97E-01	1.489	9.59E+02	7.44E-01	11.9	5.14E+05	5.14E+05	1.00E+00	0.2966	0.9987	
1419	2.37E+05	3.40E+05	1.44E+06	360	195	0.54	30	5850	5899	2.11E+02	1.00E+00	2.79	3.02E+02	1.00E+00	4	1.29E+03	1.00E+00	17			#DIV/0!	0.1927	0.9985	
1420	3.84E+05	5.50E+05	2.33E+06	300	185	0.62	40	7400	7437	4.68E+02	2.22E+00	4.14	6.71E+02	2.22E+00	5.92	2.84E+03	2.22E+00	25.2			#DIV/0!	0.1110	0.9986	
1421	3.88E+05	5.57E+05	2.38E+06	240	150	0.63	50	7500	7530	4.68E+02	2.22E+00	5.18	6.72E+02	2.23E+00	7.45	2.85E+03	2.22E+00	31.4			#DIV/0!	0.1106	0.9987	
1422	3.71E+05	5.32E+05	2.25E+06	240	160	0.67	60	9600	9632	3.83E+02	1.82E+00	5.07	5.49E+02	1.82E+00	7.23	2.33E+03	1.81E+00	30.7			#DIV/0!	0.1010	0.9986	
1423	8.99E+05	1.29E+06	5.49E+06	990	390	0.41	65	25350	25428	3.26E+02	1.55E+00	3.19	4.68E+02	1.55E+00	6.06	1.98E+03	1.55E+00	26			#DIV/0!	0.1088	0.9985	
									Avg.		1.16E+00		Avg.	1.13E+00		Avg.		1.17E+00						
Events from output (o)																								
Run Number	elclean	elreal	eltrack	total time	time beam on	ratio of time	Current [uA]	Charge [uC]	Charge (offset) [uC]	yield (elclean)	Rel yield (elclean)	Rate (elclean) [kHz]	yield (elreal)	Rel yield (elreal)	Rate (elreal) [kHz]	yield (eltrack)	Rel yield (eltrack)	Rate (hS1X) [kHz]	HMS Computer DT [%]	Total DT (EDTM) [%]	Cherenkov Efficiency	3/4 Efficiency		
1415	9.99E+04	1.47E+05	1.90E+05	600	405	0.68	2	810	891	1.50E+02	3.23E-01	0.245	2.21E+02	3.94E-01	0.36	1.82E+02	2.50E+01	2.03						
1416	1.25E+05	1.81E+05	1.95E+05	840	205	0.24	7	1435	1476	1.24E+02	2.68E-01	0.615	1.79E+02	2.70E-01	0.9	9.62E+01	1.32E+01	4.16	18.2	11.9	0.517117	0.999907		
1417	2.08E+05	3.00E+05	2.04E+05	420	225	0.54	10	2250	2295	2.11E+02	4.56E-01	0.945	3.04E+02	4.59E-01	1.37	3.99E+01	5.49E+00	6.05	29.3	25.6	0.518262	0.999894		
1418	4.25E+05	6.11E+05	2.78E+05	360	225	0.63	20	4500	4545	3.19E+02	6.90E-01	1.93	4.59E+02	6.92E-01	1.489	1.83E+01	2.52E+00	11.9	70.3	69.8	0.518617	1.00E+00		
1419	5.20E+05	7.46E+05	2.21E+05	360	195	0.54	30	5850	5899	4.62E+02	1.00E+00	2.79	6.60E+02	1.00E+00	4	7.27E+00	1.00E+00	17	80.7	81.9	0.518608	0.999897		
1420	7.61E+05	1.09E+06	1.86E+05	300	185	0.62	40	7400	7437	9.28E+02	2.01E+00	4.14	1.33E+03	2.01E+00	5.92	2.79E+00	3.83E-01	25.2	88.9	89.7	0.517477	0.999882		
1421	7.68E+05	1.10E+06	1.87E+05	240	150	0.63	50	7500	7530	9.25E+02	2.00E+00	5.18	1.33E+03	2.00E+00	7.45	2.75E+00	3.79E-01	31.4	88.9	87.2	0.520328	0.999897		
1422	7.72E+05	1.11E+06	1.86E+05	240	160	0.67	60	9600	9632	7.97E+02	1.72E+00	5.07	1.14E+03	1.72E+00	7.23	1.96E+00	2.69E-01	30.7	89	88.6	0.519624	0.999881		
1423	1.50E+06	2.16E+06	3.61E+05	990	390	0.41	65	25350	25428	5.45E+02	1.18E+00	3.19	7.80E+02	1.18E+00	6.06	1.55E+00	2.13E-01	26	89.1	88.6	0.519061	0.999889		
									Avg.		1.07E+00		Avg.	1.07E+00		Avg.		5.38E+00						

Events from hS1X													
Run Number	eltrack (hS1X)	total time	time beam on	ratio of time	Current [uA]	Charge [uC]	yield (eltrack) [hS1X]	Rel yield (eltrack) [hS1X]	Rate (hS1X) [kHz]	Electronic LT	CPU LT	Single e Tracking Efficiency	
1415	1.28E+05	600	405	0.68	2	810	1.93E+02	2.79E+00	2.03	1	0.8186	0.9991	
1416	6.59E+04	840	205	0.24	7	1435	6.51E+01	9.41E-01	4.16	1	0.7068	0.9989	
1417	6.62E+04	420	225	0.54	10	2250	6.71E+01	9.70E-01	6.05	1	0.4432	0.9900	
1418	6.56E+04	360	225	0.63	20	4500	4.92E+01	7.11E-01	11.9	1	0.2966	0.9987	
1419	7.78E+04	360	195	0.54	30	5850	6.91E+01	1.00E+00	17	1	0.1927	0.9985	
1420	9.76E+04	300	185	0.62	40	7400	1.19E+02	1.72E+00	25.2	1	0.1110	0.9986	
1421	7.13E+04	240	150	0.63	50	7500	8.61E+01	1.25E+00	31.4	1	0.1106	0.9987	
1422	6.84E+04	240	160	0.67	60	9600	7.06E+01	1.02E+00	30.7	1	0.1010	0.9986	
1423	6.32E+04	960	390	0.41	65	25350	2.30E+01	3.32E-01	26	1	0.1088	0.9985	
							Avg.	1.19E+00					
Events with current >=20uA													
Run Number	eltrack (hS1X)	total time	time beam on	ratio of time	Current [uA]	Charge [uC]	yield (eltrack) [hS1X]	Rel yield (eltrack) [hS1X]	Rate (hS1X) [kHz]	Electronic LT	CPU LT	Single e Tracking Efficiency	
1418	6.56E+04	360	225	0.63	20	4500	4.92E+01	7.11E-01	11.9	1	0.2966	0.9987	
1419	7.78E+04	360	195	0.54	30	5850	6.91E+01	1.00E+00	17	1	0.1927	0.9985	
1420	9.76E+04	300	185	0.62	40	7400	1.19E+02	1.72E+00	25.2	1	0.1110	0.9986	
1421	7.13E+04	240	150	0.63	50	7500	8.61E+01	1.25E+00	31.4	1	0.1106	0.9987	
1422	6.84E+04	240	160	0.67	60	9600	7.06E+01	1.02E+00	30.7	1	0.1010	0.9986	
1423	6.32E+04	960	390	0.41	65	25350	2.30E+01	3.32E-01	26	1	0.1088	0.9985	
							Avg.	1.03E+00					

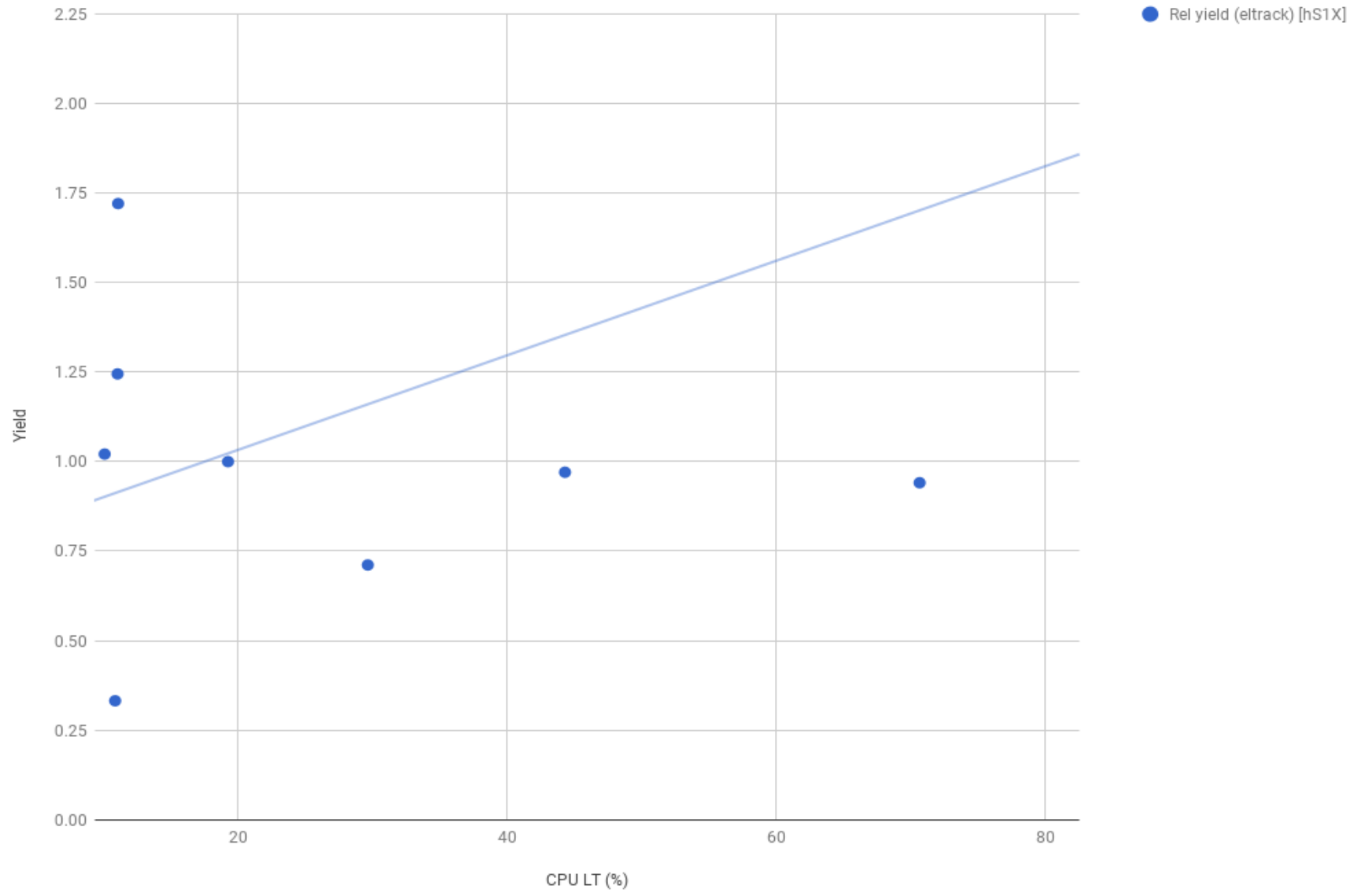
Yield vs Current [hS1X]



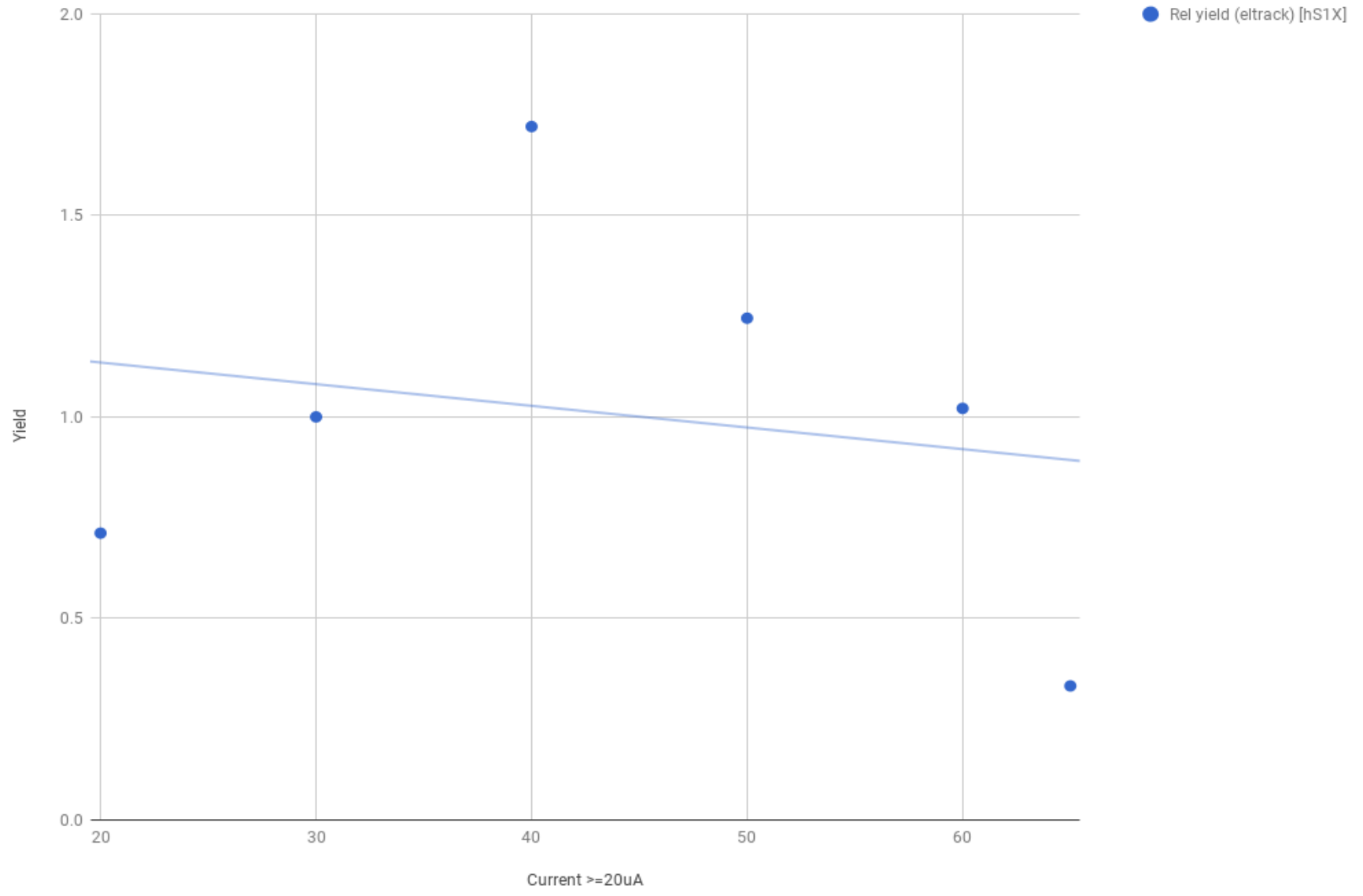
Yield vs Rates [hS1X]



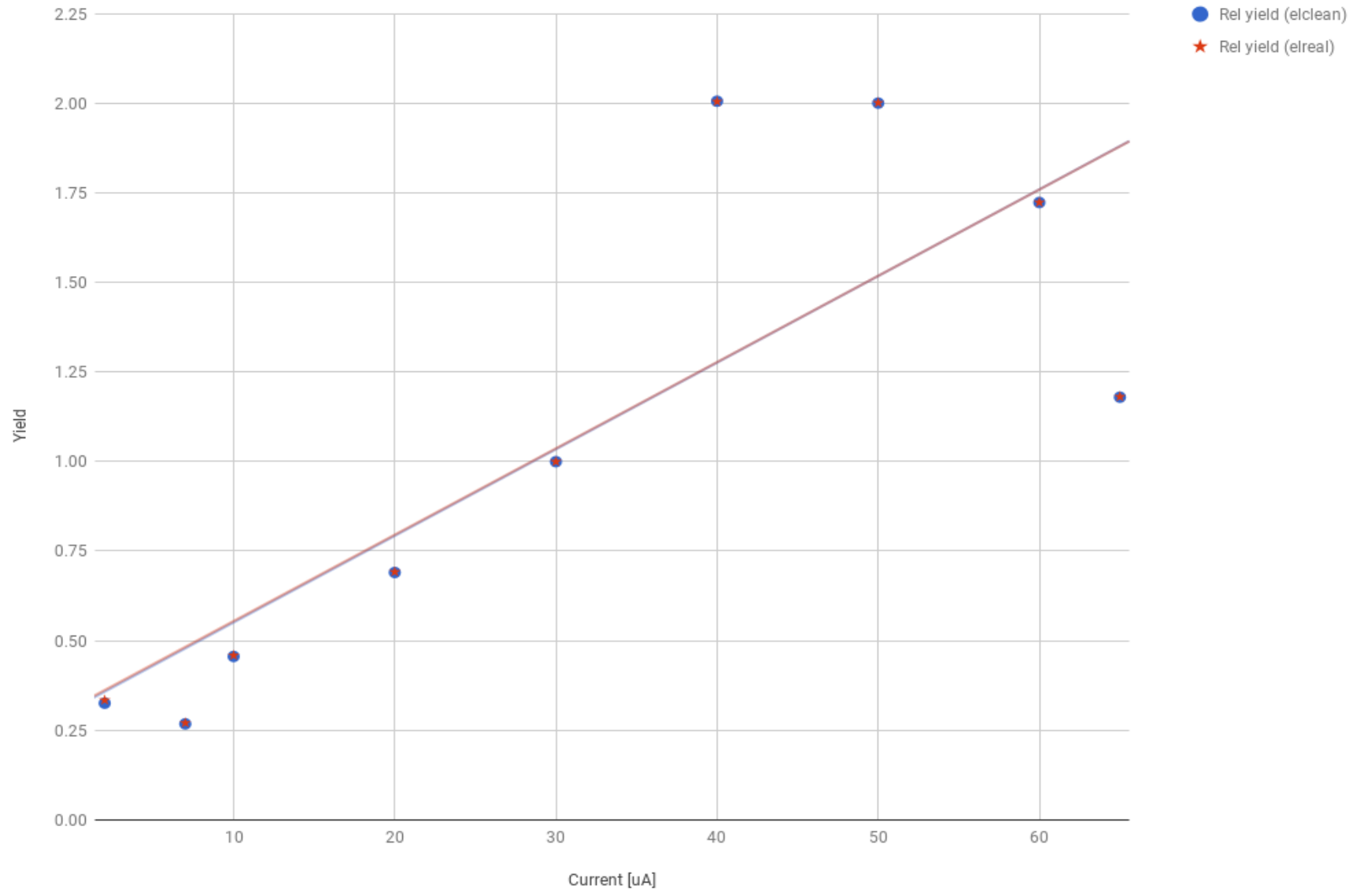
Yield vs CPU LT



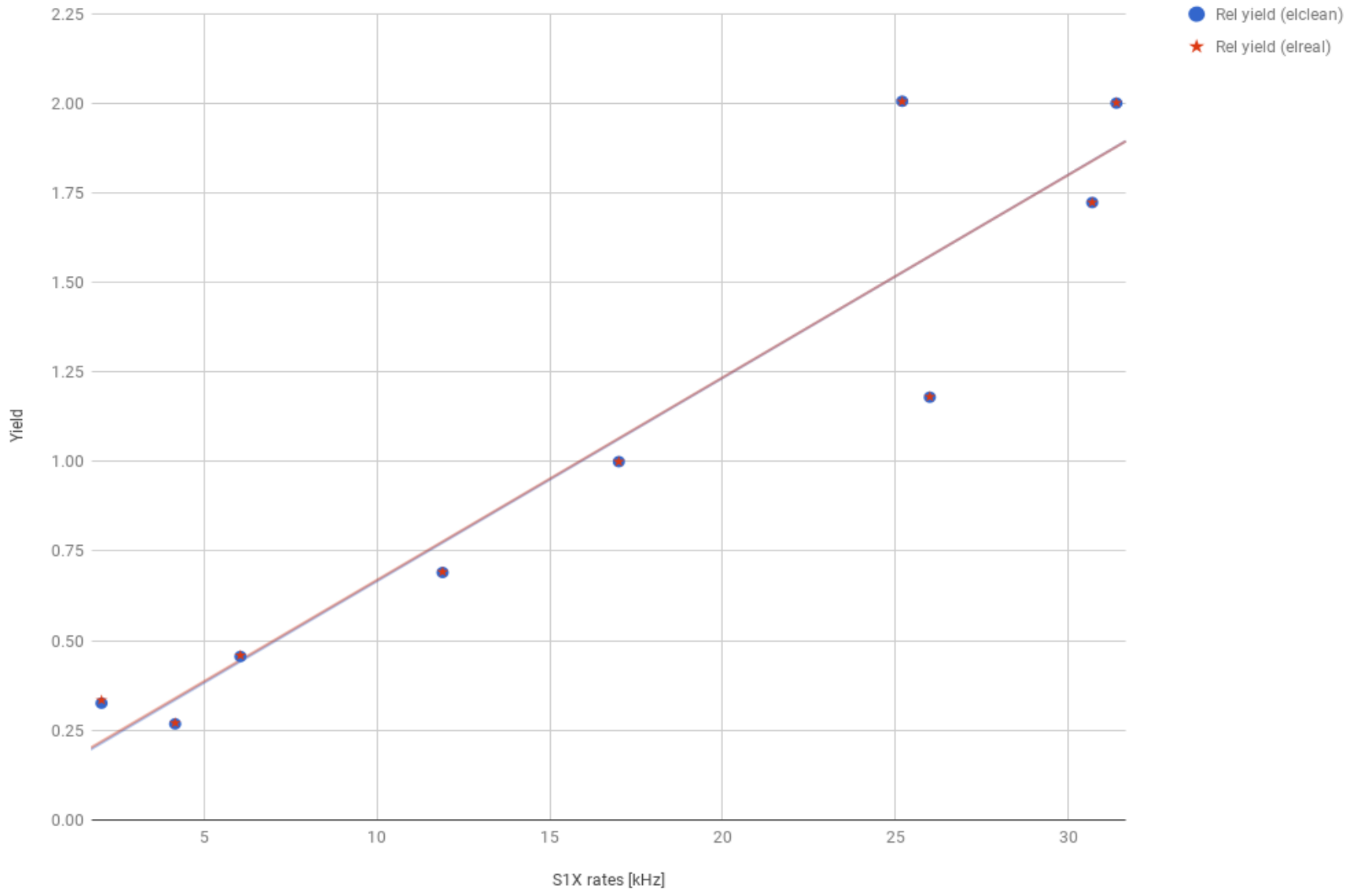
Yield vs Current ($\geq 20\mu\text{A}$)



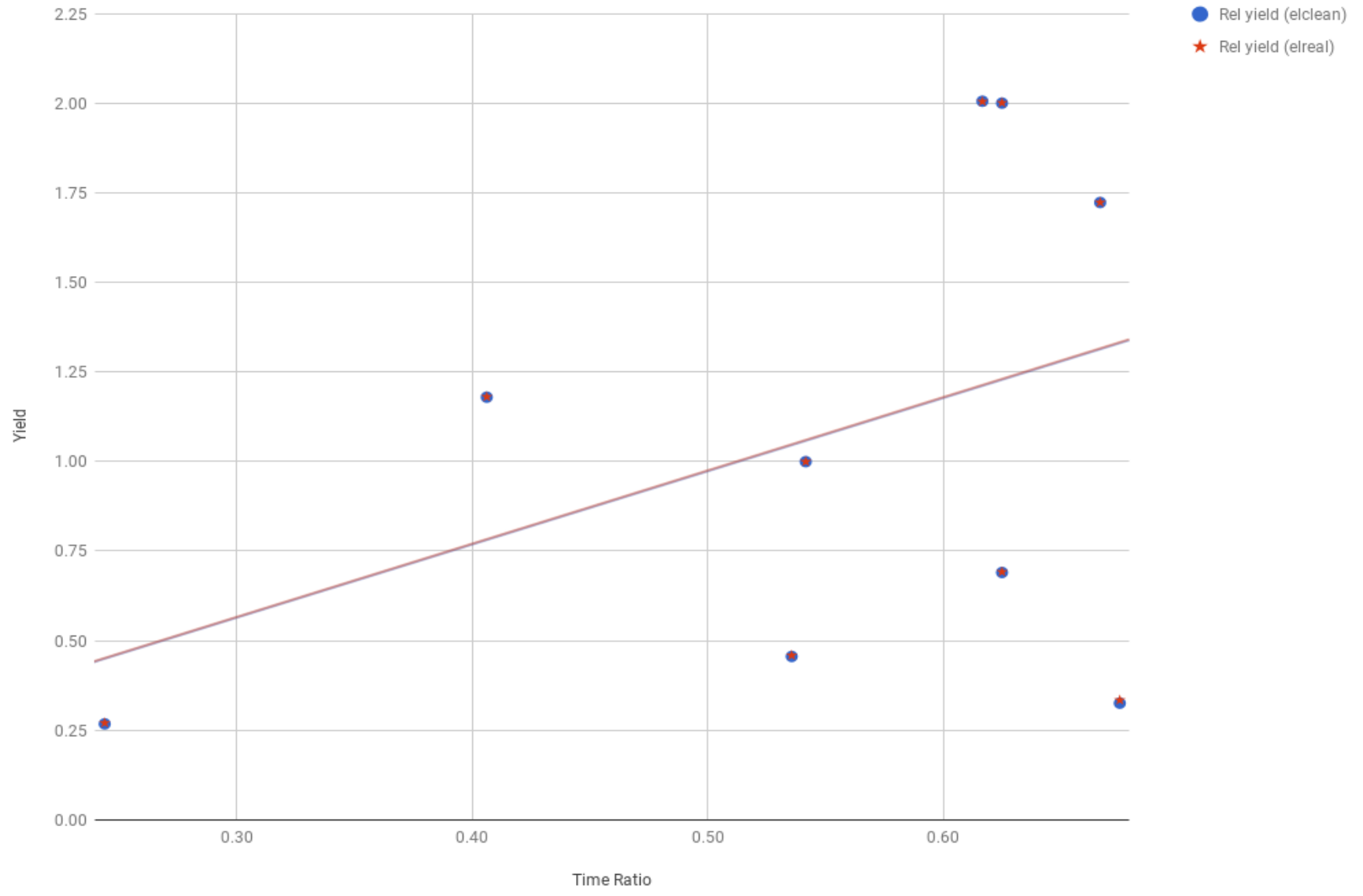
Yield vs Current [output]



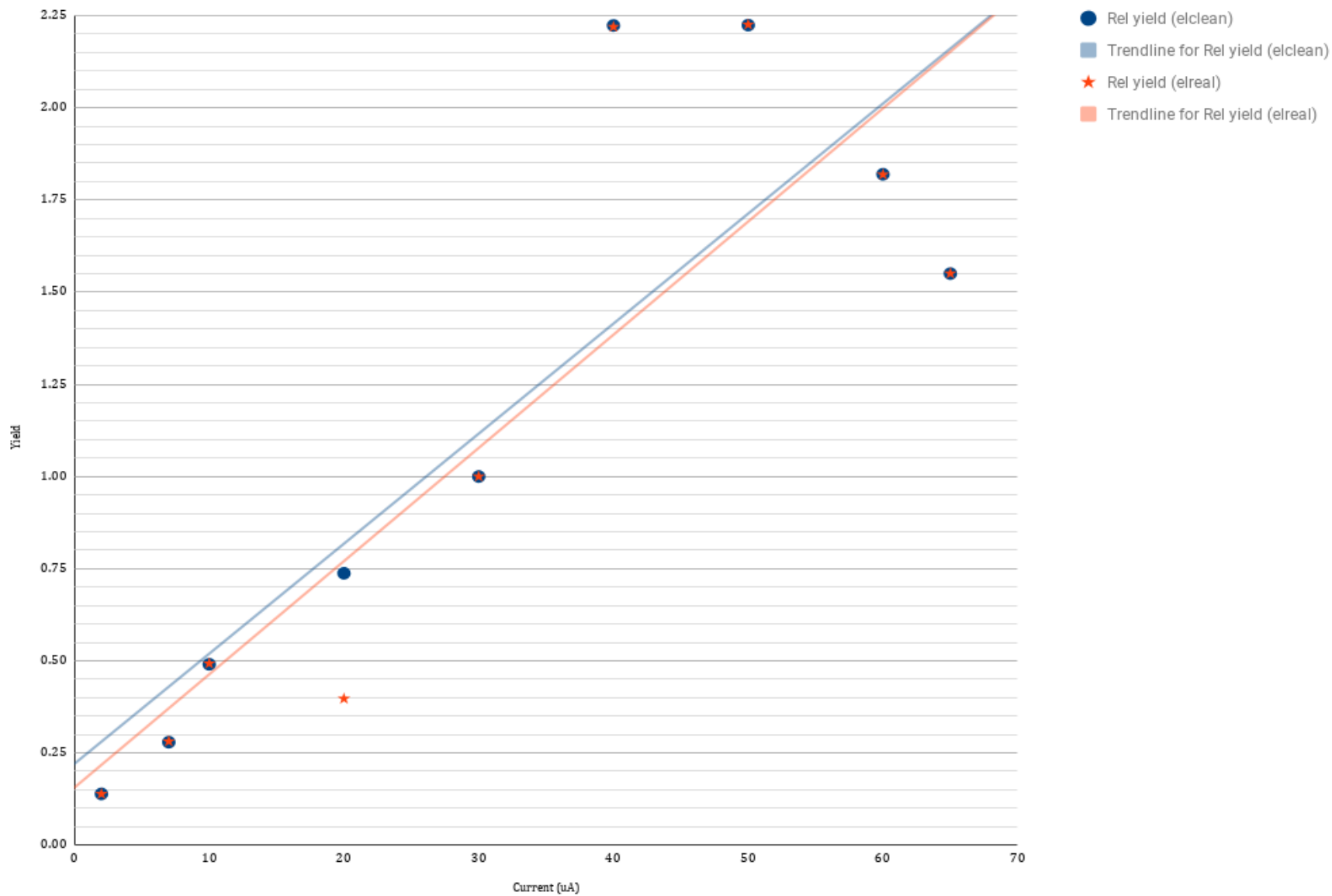
Yield vs S1X rates [output]



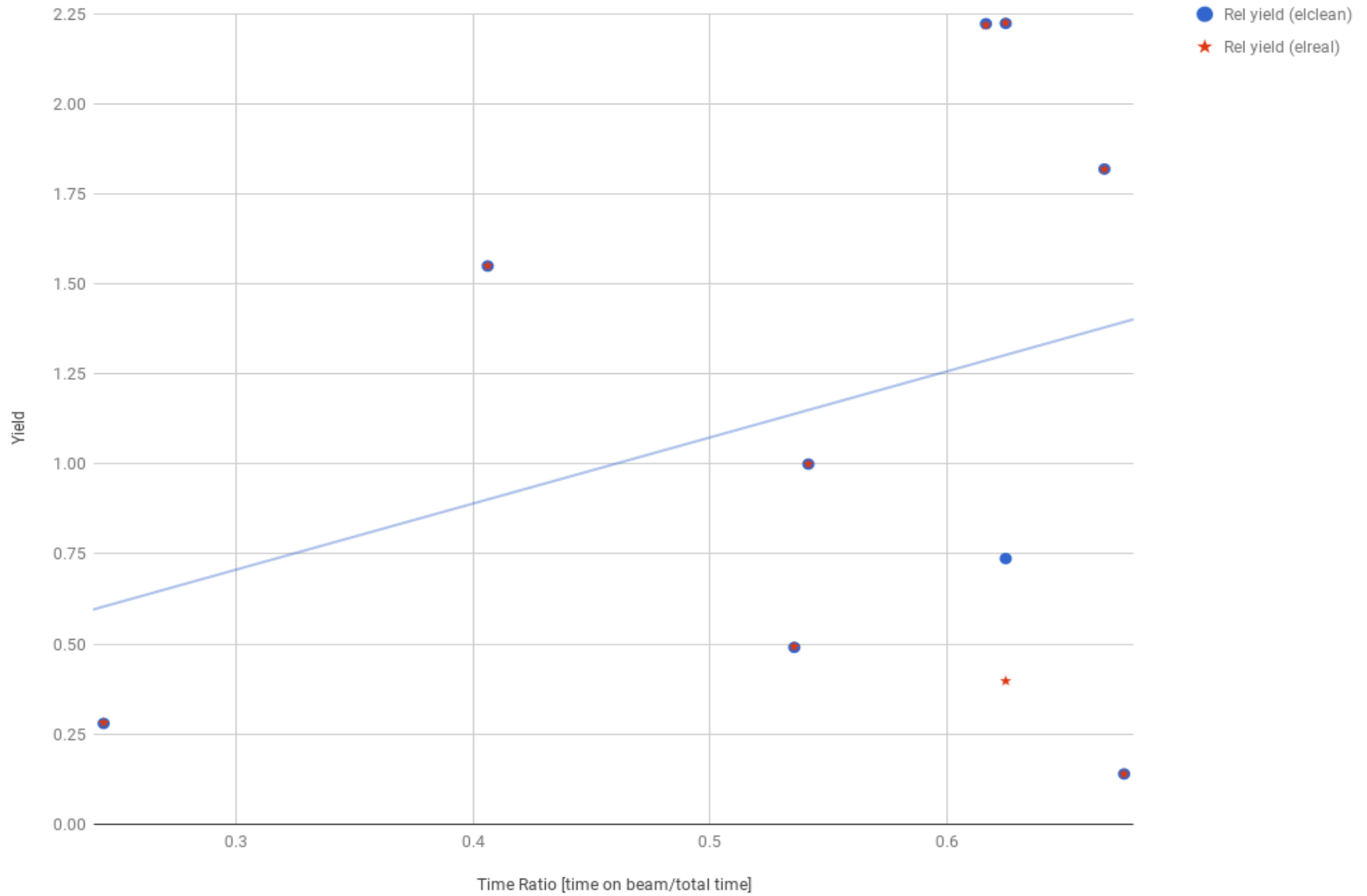
Yield vs Time Ratio [output]



Yield vs Current



Yield vs Time Ratio



Yield vs S1X Rates

