



# Field Run Report

## Run Information

<b>Run Name</b>	R_2012_07_17_14_31_13_ FLX04070166_Administrator_797A_3_265_2_3_1A_1B_797A_1_265_2_1	
<b>Analysis Name</b>	D_2012_07_18_09_54_01_brk07_fullProcessingAmplicons	
<b>Instr. SW Rev</b>	2.6 (20110516_1007)	
<b>gsRunProcessor Rev.</b>	2.6	
<b>Regions</b>	8	
<b>Cycle Count</b>	200	
<b>PTP ID</b>	772491	
<b>PTP Type</b>	70 x 75 , 35 uM	
<b>ICL Script Filename</b>	200x_TACG_70x75_XLR70KIT.icl	
<b>Instr. Serial Number</b>	FLX04070166	
<b>Instrument Model</b>	GSFLX	
<b>Instrument Configuration</b>	FLX+	
<b>User Bar Codes</b>	0648244900193871920022014 0535158800193854420122012 0523654100193852320032013 0642341800193852020072013 0564187000193866020042013 0523368200193856120092013 0535159600193874420042013 0523353400193859420012013 772491	



## Quality Filter Metrics

### Control ( ATGC )

Region	Raw Wells	Total Keypass (% raw)	ATGC Keypass	Passed Filter (% Keypass)	Avg Length	Total Bases	Dot Failed (% Keypass)	Mixed Failed (% Keypass)	ShortQuality (% Keypass)	Primer Failed (% Keypass)
1	221,814	217,802 (98.2 %)	1,494	78 (5.2 %)	532	41,517 bp	0 (.0 %)	4 (.3 %)	1,412 (94.5 %)	0 (.0 %)
2	133,455	130,681 (97.9 %)	2,754	834 (30.3 %)	517	431,297 bp	1 (.0 %)	1 (.0 %)	1,918 (69.6 %)	0 (.0 %)
3	129,602	126,902 (97.9 %)	3,559	1,170 (32.9 %)	516	603,251 bp	0 (.0 %)	1 (.0 %)	2,387 (67.1 %)	0 (.0 %)
4	142,151	138,211 (97.2 %)	4,135	1,066 (25.8 %)	511	544,897 bp	1 (.0 %)	7 (.2 %)	3,061 (74.0 %)	0 (.0 %)
5	202,049	197,913 (98.0 %)	1,714	513 (29.9 %)	525	269,527 bp	5 (.3 %)	2 (.1 %)	1,193 (69.6 %)	0 (.0 %)
6	94,253	91,164 (96.7 %)	4,393	2,944 (67.0 %)	519	1,528,786 bp	2 (.0 %)	2 (.0 %)	1,445 (32.9 %)	0 (.0 %)
7	144,069	141,249 (98.0 %)	4,478	1,573 (35.1 %)	515	809,904 bp	0 (.0 %)	2 (.0 %)	2,903 (64.8 %)	0 (.0 %)
8	152,544	150,064 (98.4 %)	4,360	782 (17.9 %)	522	408,426 bp	1 (.0 %)	3 (.1 %)	3,574 (82.0 %)	0 (.0 %)
<b>TOTAL</b>	<b>1,219,937</b>	<b>1,193,986 (97.9 %)</b>	<b>26,887</b>	<b>8,960</b>		<b>4,637,605 bp</b>	<b>10</b>	<b>22</b>	<b>17,893</b>	<b>0</b>

### Control ( CATG )

Region	Raw Wells	Total Keypass (% raw)	CATG Keypass	Passed Filter (% Keypass)	Avg Length	Total Bases	Dot Failed (% Keypass)	Mixed Failed (% Keypass)	ShortQuality (% Keypass)	Primer Failed (% Keypass)
1	221,814	217,802 (98.2 %)	819	12 (1.5 %)	506	6,067 bp	0 (.0 %)	101 (12.3 %)	702 (85.7 %)	0 (.0 %)
2	133,455	130,681 (97.9 %)	1,992	156 (7.8 %)	507	79,075 bp	0 (.0 %)	17 (.9 %)	1,818 (91.3 %)	0 (.0 %)
3	129,602	126,902 (97.9 %)	2,610	174 (6.7 %)	505	87,805 bp	0 (.0 %)	40 (1.5 %)	2,392 (91.6 %)	0 (.0 %)
4	142,151	138,211 (97.2 %)	3,005	173 (5.8 %)	500	86,434 bp	2 (.1 %)	147 (4.9 %)	2,657 (88.4 %)	0 (.0 %)
5	202,049	197,913 (98.0 %)	1,110	44 (4.0 %)	503	22,125 bp	2 (.2 %)	30 (2.7 %)	1,029 (92.7 %)	0 (.0 %)
6	94,253	91,164 (96.7 %)	3,033	536 (17.7 %)	512	274,466 bp	1 (.0 %)	5 (.2 %)	2,487 (82.0 %)	0 (.0 %)
7	144,069	141,249 (98.0 %)	3,051	136 (4.5 %)	503	68,381 bp	2 (.1 %)	17 (.6 %)	2,890 (94.7 %)	0 (.0 %)
8	152,544	150,064 (98.4 %)	2,752	64 (2.3 %)	480	30,730 bp	10 (.4 %)	76 (2.8 %)	2,582 (93.8 %)	0 (.0 %)
<b>TOTAL</b>	<b>1,219,937</b>	<b>1,193,986 (97.9 %)</b>	<b>18,372</b>	<b>1,295</b>		<b>655,083 bp</b>	<b>17</b>	<b>433</b>	<b>16,557</b>	<b>0</b>

### Library ( GACT )

Region	Raw Wells	Total Keypass (% raw)	GACT Keypass	Passed Filter (% Keypass)	Avg Length	Total Bases	Dot Failed (% Keypass)	Mixed Failed (% Keypass)	ShortQuality (% Keypass)	Primer Failed (% Keypass)
1	221,814	217,802 (98.2 %)	215,489	2,365 (1.1 %)	178	421,723 bp	4,526 (2.1 %)	41,275 (19.2 %)	166,002 (77.0 %)	325 (.2 %)
5	202,049	197,913 (98.0 %)	195,089	3,600 (1.8 %)	255	916,271 bp	4,817 (2.5 %)	44,242 (22.7 %)	141,157 (72.4 %)	206 (.1 %)
<b>TOTAL</b>	<b>1,219,937</b>	<b>1,193,986 (97.9 %)</b>	<b>410,578</b>	<b>5,965</b>		<b>1,337,994 bp</b>	<b>9,343</b>	<b>85,517</b>	<b>307,159</b>	<b>531</b>



## Library ( TCAG )

Region	Raw Wells	Total Keypass (% raw)	TCAG Keypass	Passed Filter (% Keypass)	Avg Length	Total Bases	Dot Failed (% Keypass)	Mixed Failed (% Keypass)	ShortQuality (% Keypass)	Primer Failed (% Keypass)
2	133,455	130,681 (97.9 %)	125,935	20,658 (16.4 %)	416	8,588,708 bp	1,249 (1.0 %)	30,605 (24.3 %)	73,208 (58.1 %)	0 (.0 %)
3	129,602	126,902 (97.9 %)	120,733	3,458 (2.9 %)	426	1,472,732 bp	129 (.1 %)	8,881 (7.4 %)	108,042 (89.5 %)	0 (.0 %)
4	142,151	138,211 (97.2 %)	131,071	5,351 (4.1 %)	404	2,162,183 bp	825 (.6 %)	11,686 (8.9 %)	112,950 (86.2 %)	0 (.0 %)
6	94,253	91,164 (96.7 %)	83,738	27,553 (32.9 %)	417	11,501,720 bp	762 (.9 %)	13,665 (16.3 %)	41,613 (49.7 %)	1 (.0 %)
7	144,069	141,249 (98.0 %)	133,720	10,102 (7.6 %)	430	4,343,711 bp	207 (.2 %)	7,333 (5.5 %)	115,792 (86.6 %)	0 (.0 %)
8	152,544	150,064 (98.4 %)	142,952	3,142 (2.2 %)	340	1,068,787 bp	911 (.6 %)	12,217 (8.5 %)	126,395 (88.4 %)	0 (.0 %)
<b>TOTAL</b>	<b>1,219,937</b>	<b>1,193,986 (97.9 %)</b>	<b>738,149</b>	<b>70,264</b>		<b>29,137,841 bp</b>	<b>4,083</b>	<b>84,387</b>	<b>578,000</b>	<b>1</b>



## Control Fragment Metrics

### ATGC

Region	Raw Wells	Keypass	Percentage of Fragments
			98% Accuracy
1	221814	1494	56.6 % @ 400 bp 94.3 % @ 300 bp 98.1 % @ 200 bp 98.5 % @ 100 bp
2	133455	2754	74.4 % @ 400 bp 95.4 % @ 300 bp 98.9 % @ 200 bp 99.6 % @ 100 bp
3	129602	3559	80.6 % @ 400 bp 97.0 % @ 300 bp 98.9 % @ 200 bp 99.2 % @ 100 bp
4	142151	4135	72.5 % @ 400 bp 91.0 % @ 300 bp 95.5 % @ 200 bp 97.3 % @ 100 bp
5	202049	1714	87.8 % @ 400 bp 97.1 % @ 300 bp 98.0 % @ 200 bp 98.6 % @ 100 bp
6	94253	4393	88.8 % @ 400 bp 97.1 % @ 300 bp 99.0 % @ 200 bp 99.6 % @ 100 bp
7	144069	4478	79.0 % @ 400 bp 96.0 % @ 300 bp 98.9 % @ 200 bp 99.5 % @ 100 bp
8	152544	4360	62.9 % @ 400 bp 90.8 % @ 300 bp 98.2 % @ 200 bp 98.9 % @ 100 bp



## CATG

Region	Raw Wells	Keypass	Percentage of Fragments
			98% Accuracy
1	221814	819	13.1 % @ 400 bp 33.0 % @ 300 bp 51.0 % @ 200 bp 59.5 % @ 100 bp
2	133455	1992	32.0 % @ 400 bp 59.8 % @ 300 bp 82.8 % @ 200 bp 90.2 % @ 100 bp
3	129602	2610	35.0 % @ 400 bp 61.5 % @ 300 bp 81.1 % @ 200 bp 87.0 % @ 100 bp
4	142151	3005	30.4 % @ 400 bp 53.7 % @ 300 bp 71.7 % @ 200 bp 77.4 % @ 100 bp
5	202049	1110	24.1 % @ 400 bp 50.5 % @ 300 bp 70.3 % @ 200 bp 79.3 % @ 100 bp
6	94253	3033	48.7 % @ 400 bp 72.8 % @ 300 bp 89.8 % @ 200 bp 93.3 % @ 100 bp
7	144069	3051	31.7 % @ 400 bp 59.8 % @ 300 bp 81.6 % @ 200 bp 88.2 % @ 100 bp
8	152544	2752	19.2 % @ 400 bp 45.5 % @ 300 bp 71.3 % @ 200 bp 81.6 % @ 100 bp

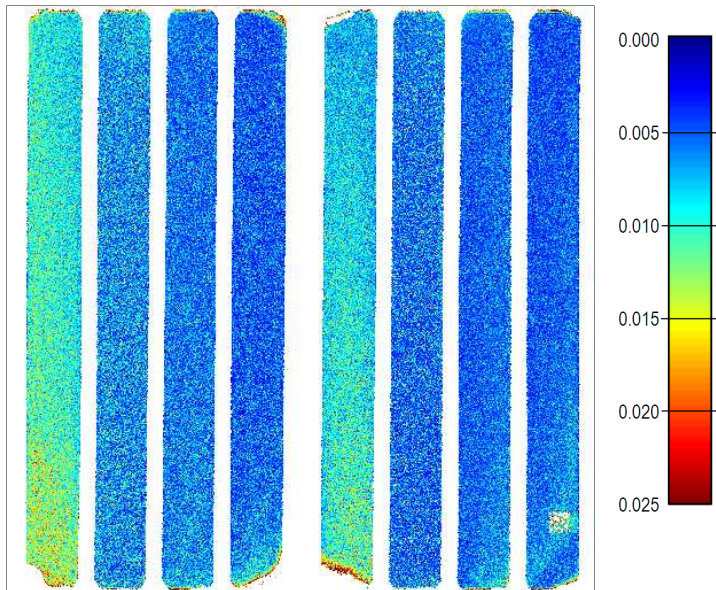


## Combined

Region	Raw Wells	Keypass	Percentage of Fragments
			98% Accuracy
1	221814	2313	41.2 % @ 400 bp 72.6 % @ 300 bp 81.5 % @ 200 bp 84.7 % @ 100 bp
2	133455	4746	56.6 % @ 400 bp 80.5 % @ 300 bp 92.2 % @ 200 bp 95.7 % @ 100 bp
3	129602	6169	61.3 % @ 400 bp 82.0 % @ 300 bp 91.4 % @ 200 bp 94.0 % @ 100 bp
4	142151	7140	54.8 % @ 400 bp 75.3 % @ 300 bp 85.5 % @ 200 bp 88.9 % @ 100 bp
5	202049	2824	62.8 % @ 400 bp 78.8 % @ 300 bp 87.1 % @ 200 bp 91.0 % @ 100 bp
6	94253	7426	72.4 % @ 400 bp 87.2 % @ 300 bp 95.2 % @ 200 bp 97.0 % @ 100 bp
7	144069	7529	59.8 % @ 400 bp 81.4 % @ 300 bp 91.9 % @ 200 bp 94.9 % @ 100 bp
8	152544	7112	46.0 % @ 400 bp 73.3 % @ 300 bp 87.8 % @ 200 bp 92.2 % @ 100 bp

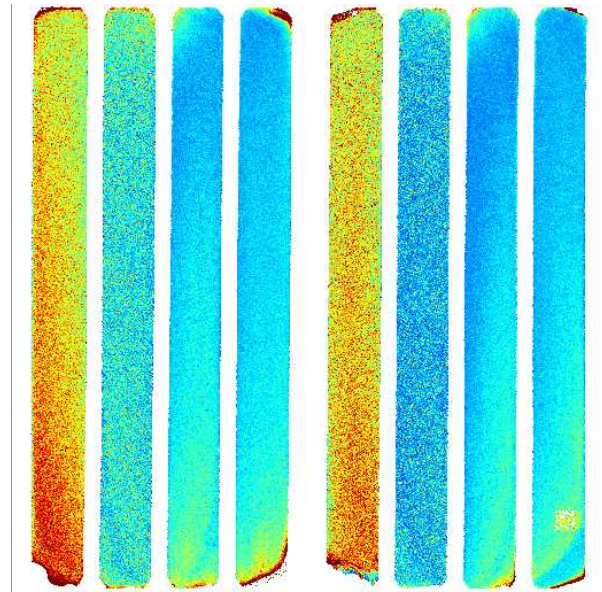
## Carry Forward / Incomplete Extension Corrections

### Carry Forward



Region	Median	Mean	Untrainable % Keypass
1	.00782	.01044 ± .00738	39793 18.3 %
2	.00425	.00713 ± .00641	30215 23.1 %
3	.00371	.00622 ± .00572	1958 1.5 %
4	.00316	.00569 ± .00592	3258 2.4 %
5	.00631	.00906 ± .00690	45030 22.8 %
6	.00412	.00622 ± .00542	14128 15.4 %
7	.00357	.00574 ± .00517	1948 1.4 %
8	.00343	.00564 ± .00535	3005 2.0 %

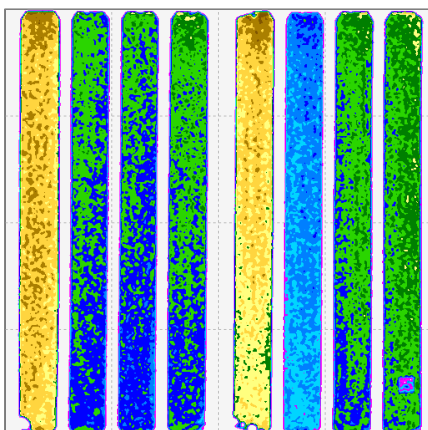
### Incomplete Extension



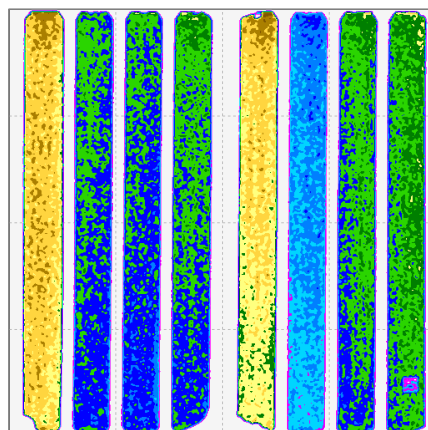
Region	Median	Mean	Untrainable % Keypass
1	.00294	.00335 ± .00158	2639 1.2 %
2	.00145	.00197 ± .00132	370 .3 %
3	.00165	.00174 ± .00054	346 .3 %
4	.00165	.00176 ± .00068	359 .3 %
5	.00267	.00324 ± .00180	3559 1.8 %
6	.00125	.00162 ± .00114	820 .9 %
7	.00153	.00162 ± .00053	368 .3 %
8	.00161	.00170 ± .00058	355 .2 %

### Bead Loading Density

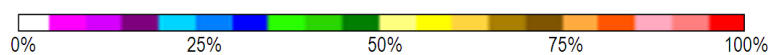
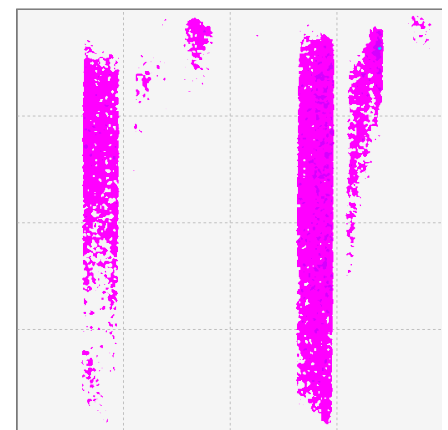
Raw Wells Only



Keypass Wells Only



High Quality Wells





## Signal Per Base / ATP Values

### Control

#### ATGC

Region	Raw Wells	Keypass	Sig / Base	ATP 1	ATP 2	ATP 3
1	221814	1494	185 ± 39	154 ± 27	90 ± 12	73 ± 11
2	133455	2754	182 ± 48	171 ± 30	101 ± 15	82 ± 14
3	129602	3559	164 ± 43	175 ± 37	107 ± 15	87 ± 13
4	142151	4135	160 ± 42	155 ± 40	99 ± 19	81 ± 16
5	202049	1714	220 ± 51	195 ± 43	98 ± 16	79 ± 13
6	94253	4393	186 ± 60	212 ± 43	117 ± 18	96 ± 16
7	144069	4478	175 ± 48	196 ± 42	106 ± 18	86 ± 15
8	152544	4360	163 ± 44	185 ± 40	100 ± 19	81 ± 16

#### CATG

Region	Raw Wells	Keypass	Sig / Base	ATP 1	ATP 2	ATP 3
1	221814	819	144 ± 33	154 ± 27	93 ± 12	78 ± 11
2	133455	1992	137 ± 38	174 ± 31	105 ± 15	87 ± 14
3	129602	2610	126 ± 36	180 ± 37	112 ± 16	94 ± 14
4	142151	3005	124 ± 33	159 ± 41	104 ± 20	87 ± 17
5	202049	1110	165 ± 37	196 ± 42	102 ± 17	85 ± 14
6	94253	3033	142 ± 40	217 ± 44	121 ± 19	102 ± 17
7	144069	3051	134 ± 38	201 ± 42	110 ± 18	92 ± 16
8	152544	2752	124 ± 34	190 ± 41	105 ± 20	87 ± 17

### Library

#### GACT

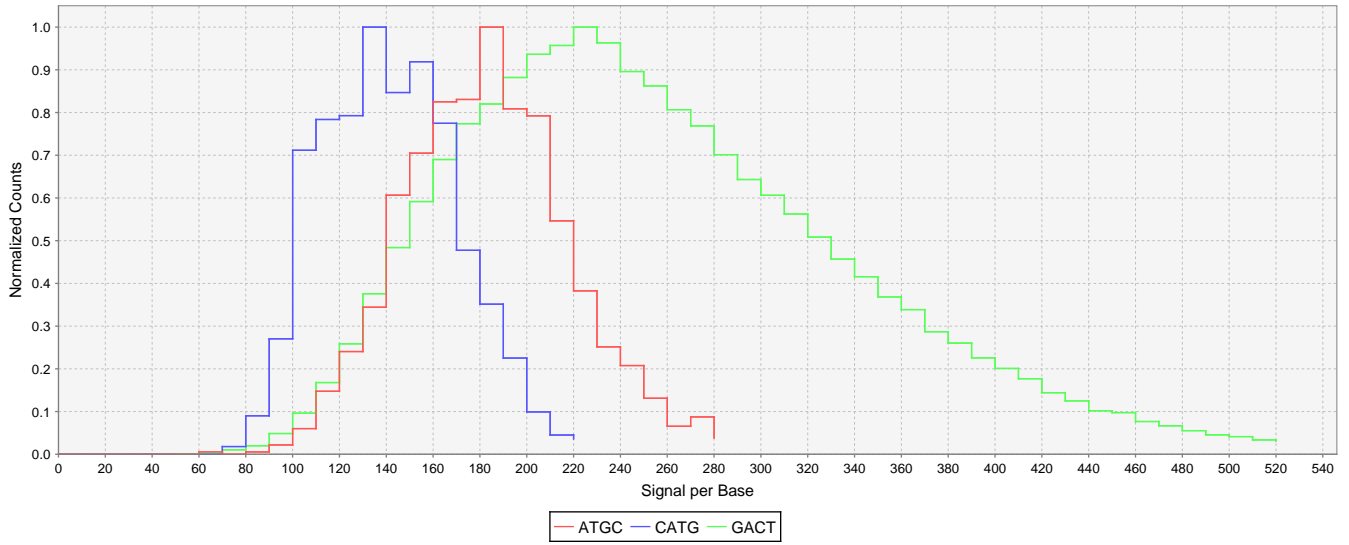
Region	Raw Wells	Keypass	Sig / Base	ATP 1	ATP 2	ATP 3
1	221814	215489	260 ± 91	148 ± 27	82 ± 12	68 ± 11
5	202049	195089	299 ± 111	187 ± 40	89 ± 15	75 ± 13

#### TCAG

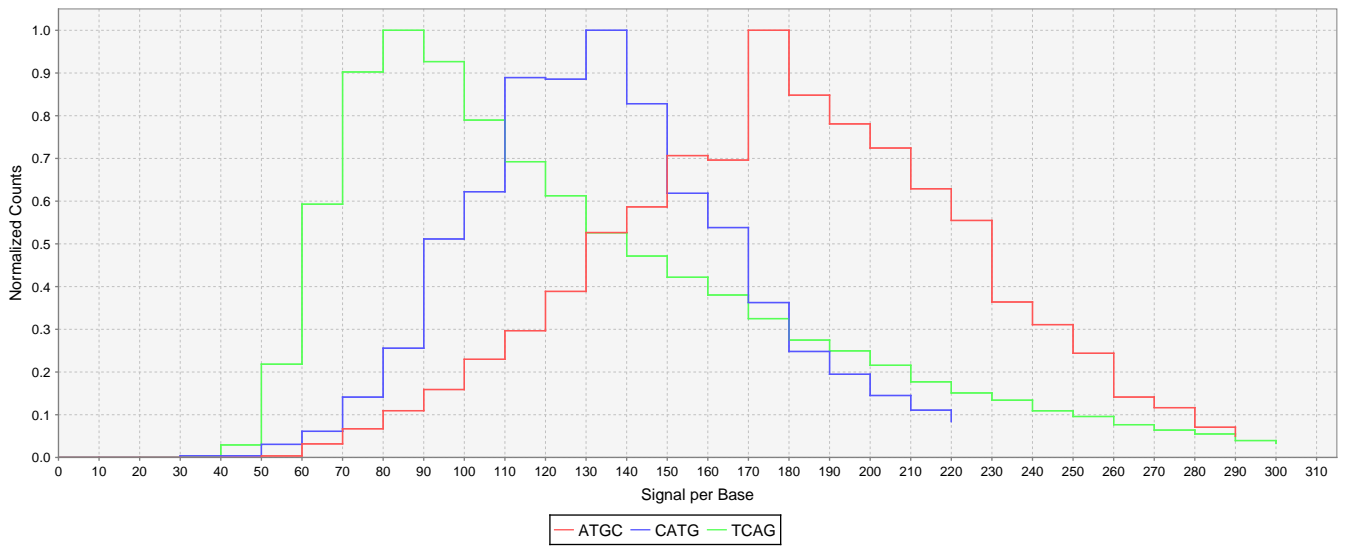
Region	Raw Wells	Keypass	Sig / Base	ATP 1	ATP 2	ATP 3
2	133455	125935	131 ± 59	168 ± 29	99 ± 15	82 ± 14
3	129602	120733	116 ± 51	175 ± 36	105 ± 15	88 ± 14
4	142151	131071	138 ± 60	155 ± 39	97 ± 19	81 ± 16
6	94253	83738	121 ± 64	214 ± 42	117 ± 18	99 ± 17
7	144069	133720	126 ± 54	195 ± 42	104 ± 18	86 ± 16
8	152544	142952	146 ± 61	183 ± 40	97 ± 19	79 ± 17



### Region 1

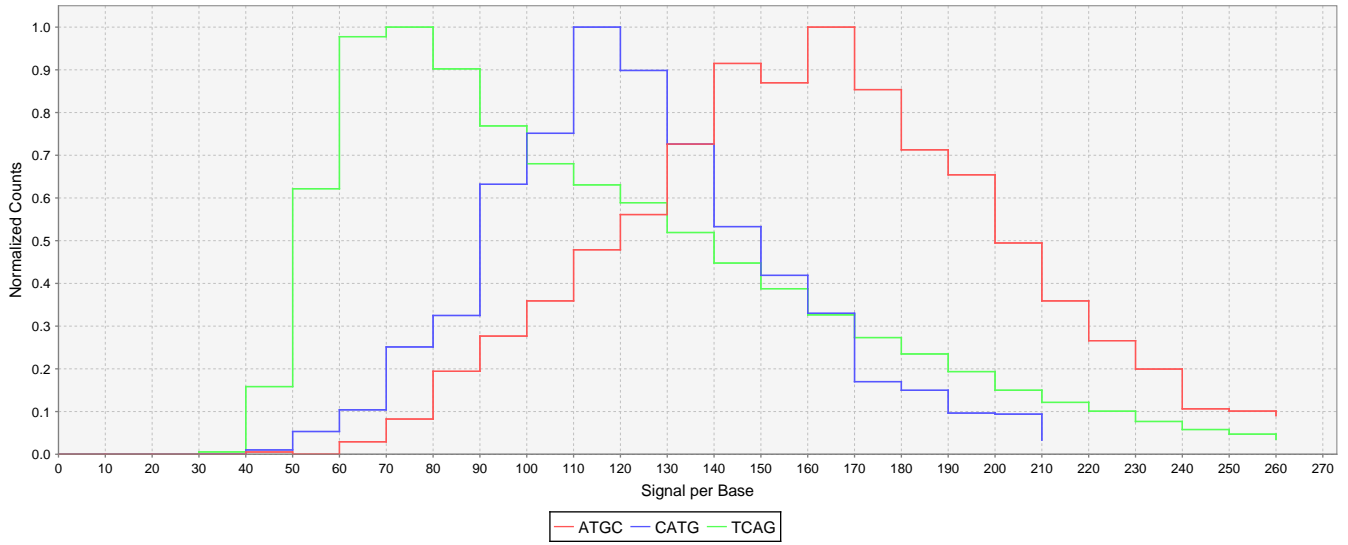


### Region 2

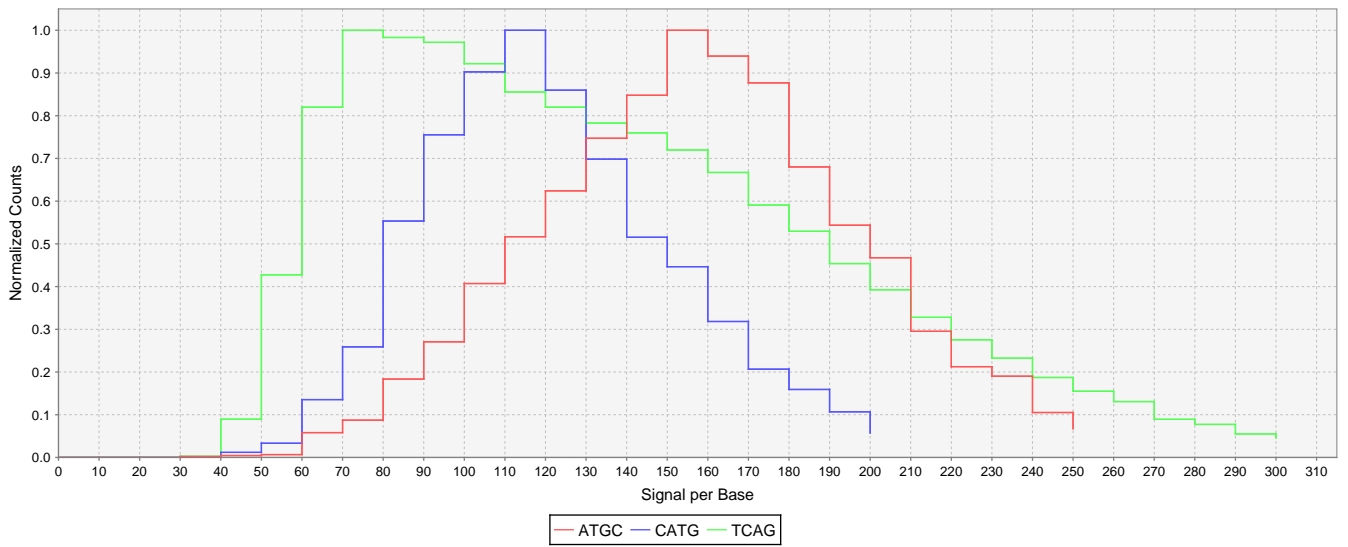




### Region 3

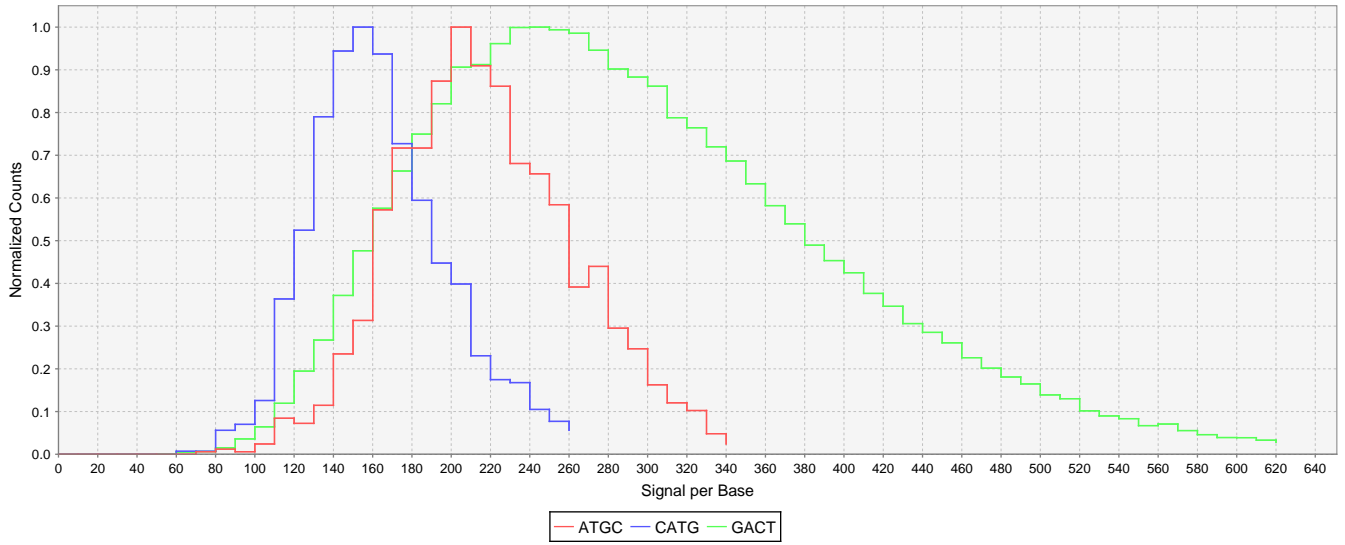


### Region 4

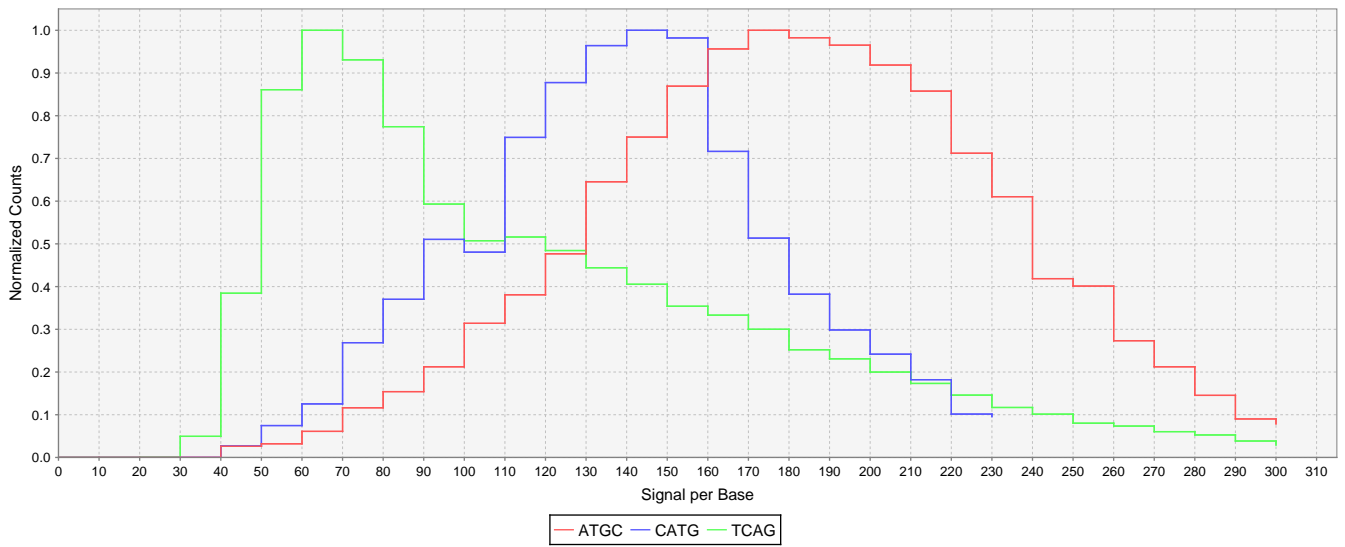




### Region 5

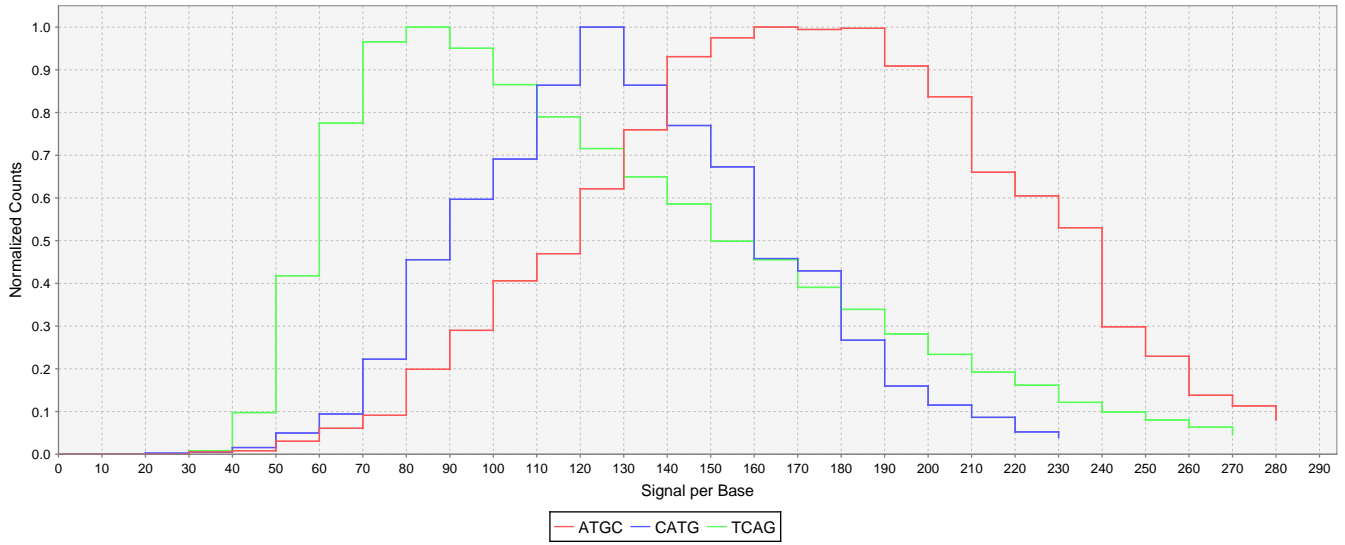


### Region 6

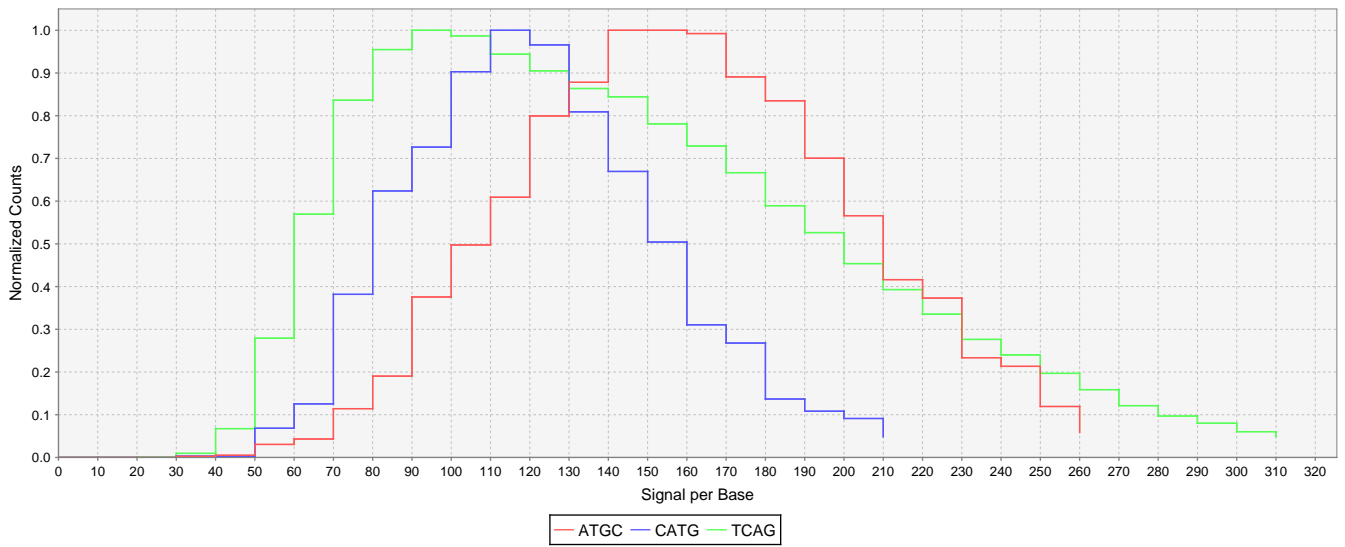




### Region 7



### Region 8





# Test Fragment Flowgrams

## Summary

### ECTF

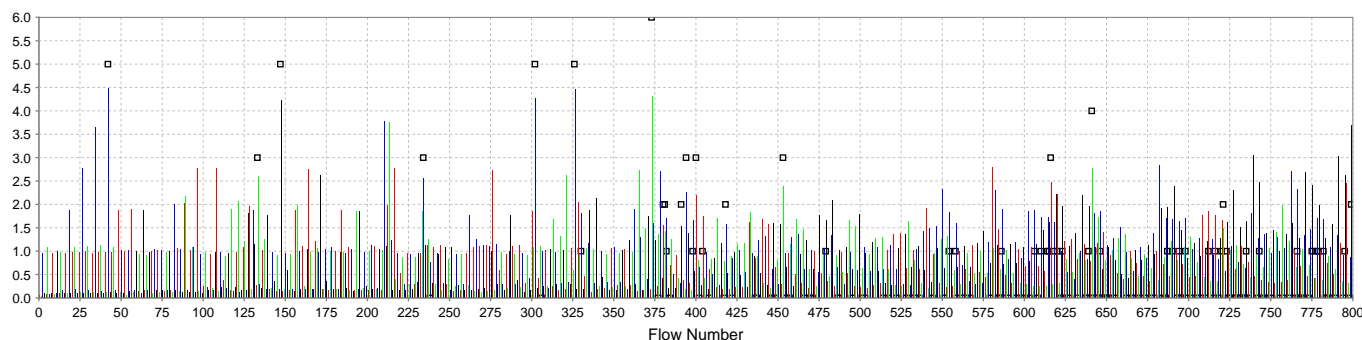
Region	ECTF301		ECTF302		ECTF303		ECTF304	
	# Matches	Error	# Matches	Error	# Matches	Error	# Matches	Error
1	309	0.35%	471	1.33%	353	0.64%	370	0.3%
2	717	0.07%	687	0.18%	704	0.06%	648	0.02%
3	934	0.03%	931	0.25%	910	0.1%	780	0.07%
4	1088	0.22%	1046	1.04%	1048	0.27%	957	0.09%
5	377	0.4%	530	0.6%	433	0.46%	378	0.21%
6	1107	0.08%	1166	0.15%	1150	0.08%	975	0.16%
7	1166	0.08%	1182	0.2%	1126	0.13%	1008	0.09%
8	1139	0.08%	1167	0.42%	1070	0.27%	987	0.16%
<b>Total</b>	<b>6837</b>	<b>0.12%</b>	<b>7180</b>	<b>0.46%</b>	<b>6794</b>	<b>0.2%</b>	<b>6103</b>	<b>0.12%</b>

### AVTF

Region	AVTF100		AVTF120		AVTF150		AVTF2		AVTF7		AVTF90	
	# Matches	Error	# Matches	Error	# Matches	Error	# Matches	Error	# Matches	Error	# Matches	Error
1	117	9.6%	89	6.82%	63	7.48%	120	5.09%	177	3.81%	232	18.43%
2	335	4.17%	300	2.79%	359	2.84%	352	1.31%	343	2.33%	301	9.18%
3	460	2.72%	396	1.54%	434	2.21%	458	1.15%	428	2.05%	424	10.71%
4	523	4.25%	460	2.14%	440	2.84%	530	2.12%	494	2.2%	431	13.87%
5	189	7.61%	155	4.54%	98	6.87%	173	2.95%	219	2.62%	285	9.95%
6	528	2.28%	479	1.38%	519	1.55%	506	0.92%	512	2.0%	488	3.78%
7	565	3.09%	502	1.56%	467	2.27%	522	1.22%	495	2.13%	494	7.27%
8	457	4.81%	473	2.65%	449	3.19%	429	1.83%	440	2.75%	469	11.49%
<b>Total</b>	<b>3174</b>	<b>3.96%</b>	<b>2854</b>	<b>2.26%</b>	<b>2829</b>	<b>2.71%</b>	<b>3090</b>	<b>1.66%</b>	<b>3108</b>	<b>2.35%</b>	<b>3124</b>	<b>9.99%</b>

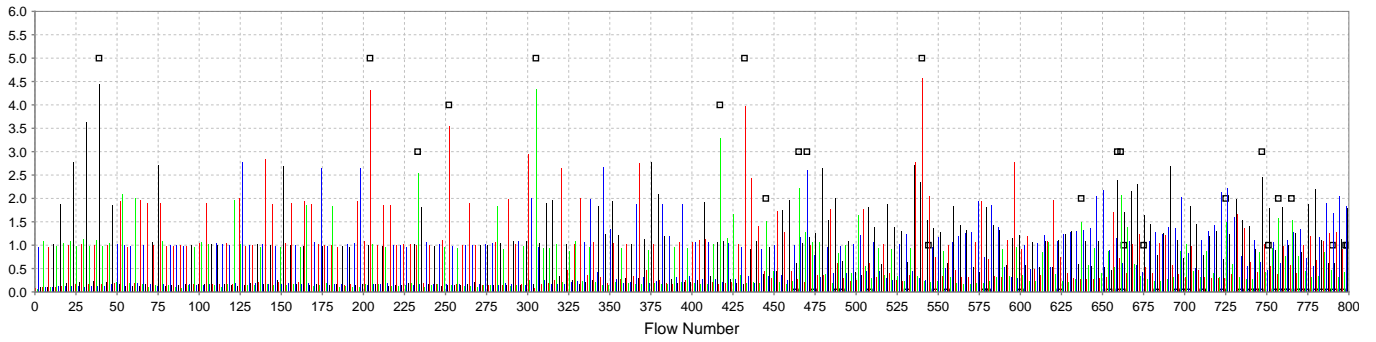
## All Regions

### AVTF100

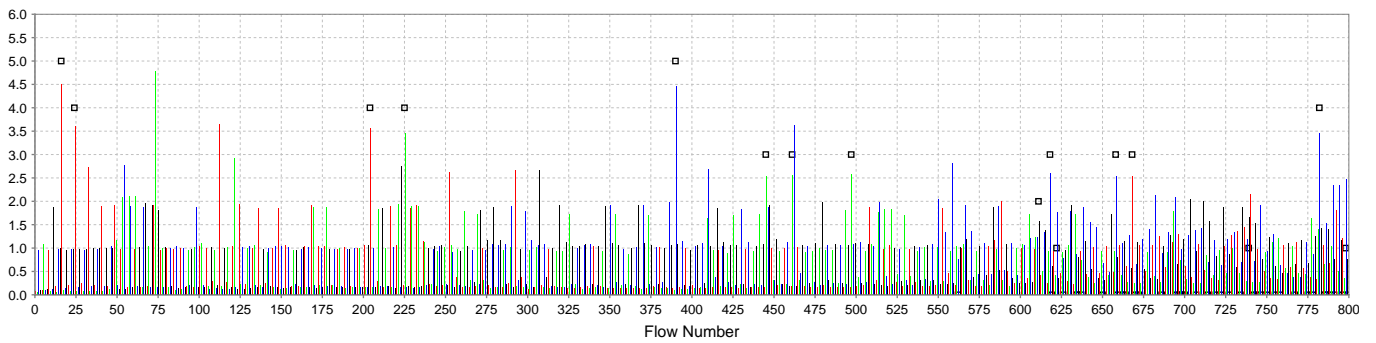




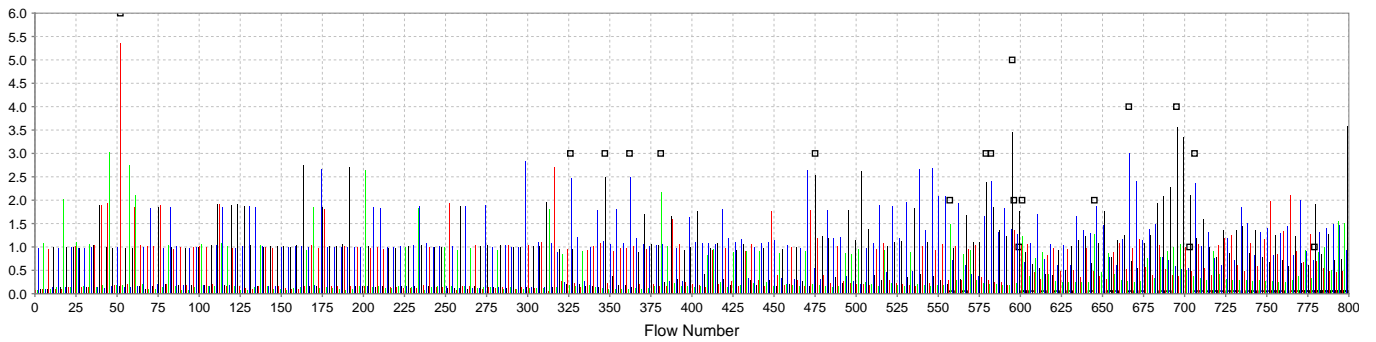
**AVTF120**



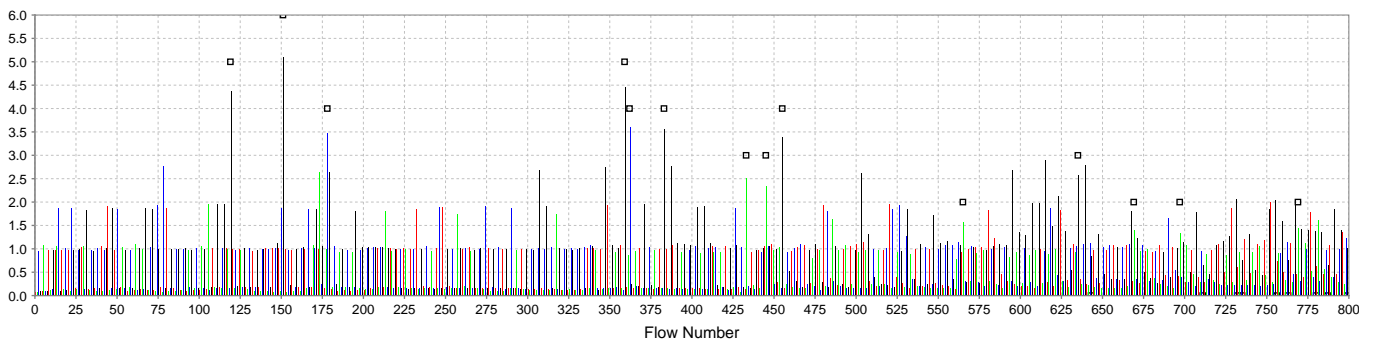
**AVTF150**



**AVTF2**

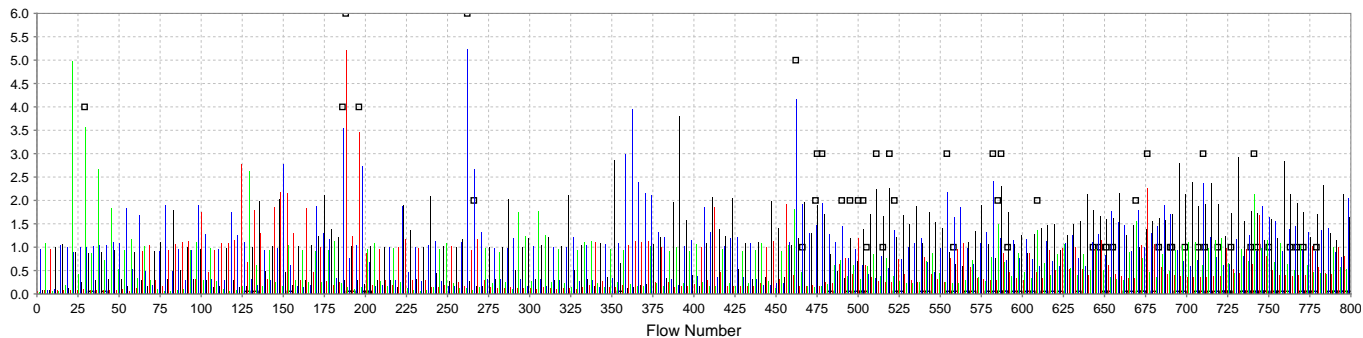


**AVTF7**

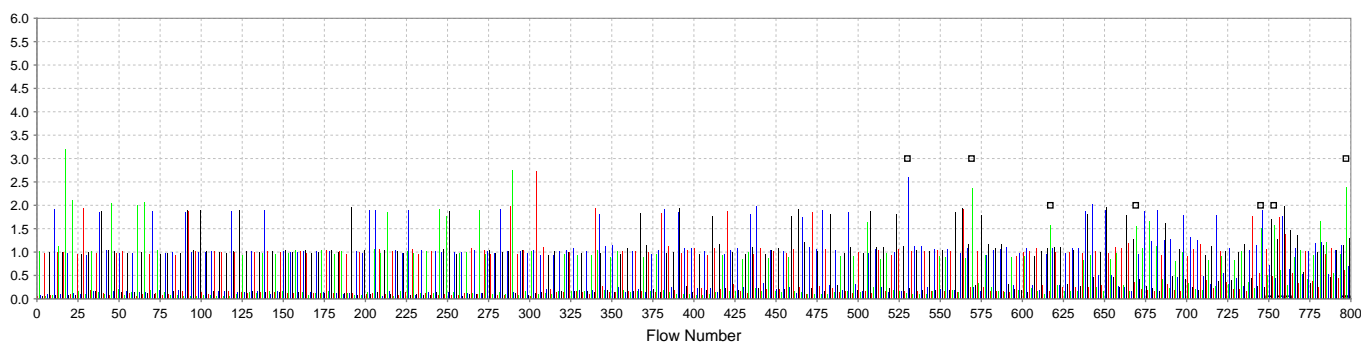




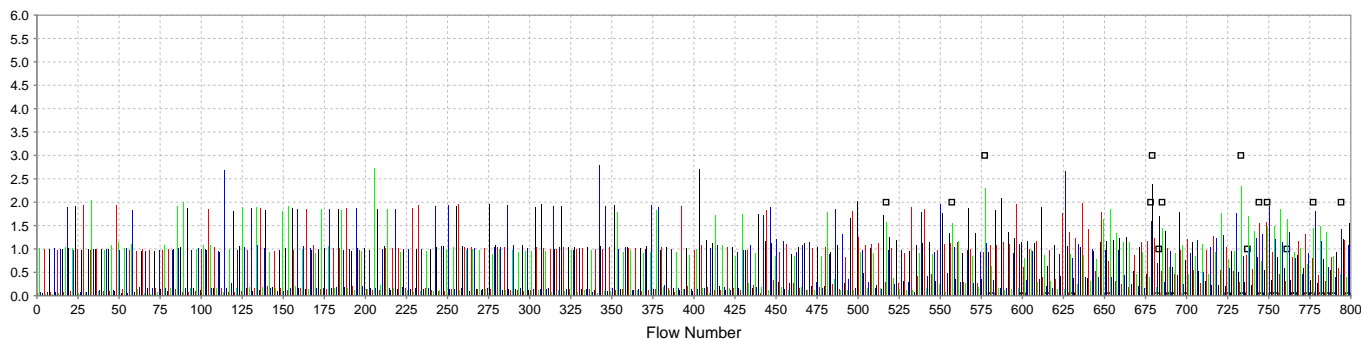
**AVTF90**



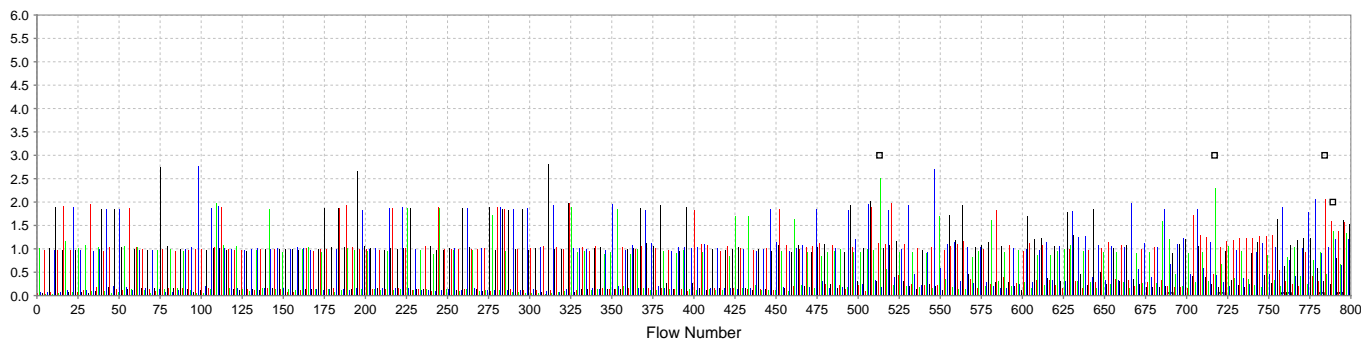
**ECTF301**



**ECTF302**

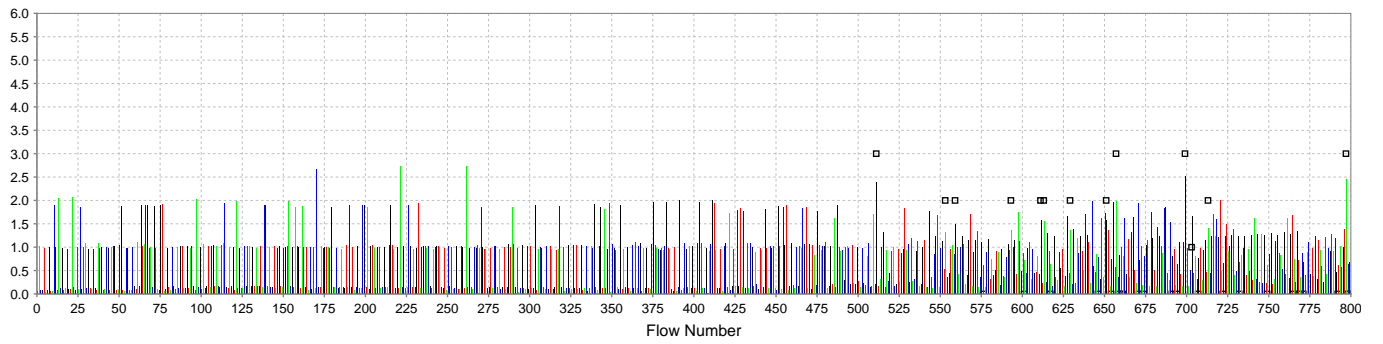


**ECTF303**





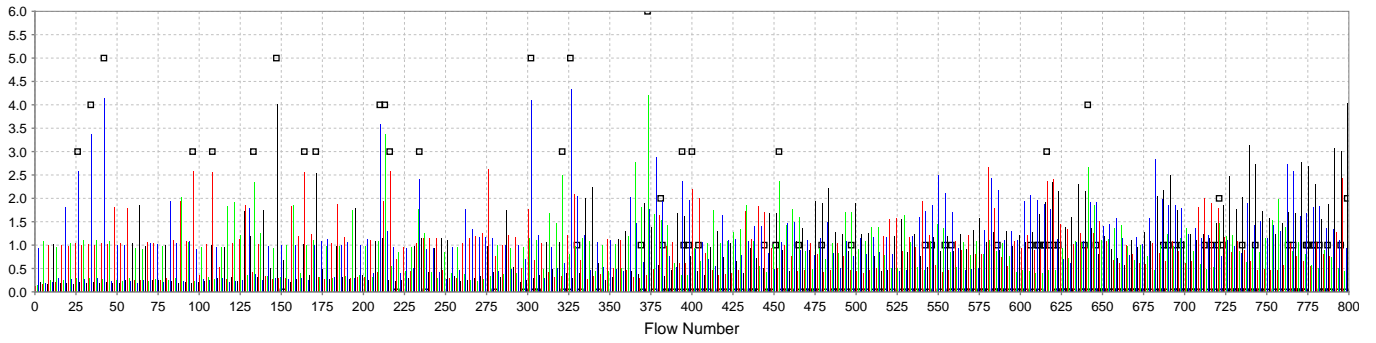
**ECTF304**



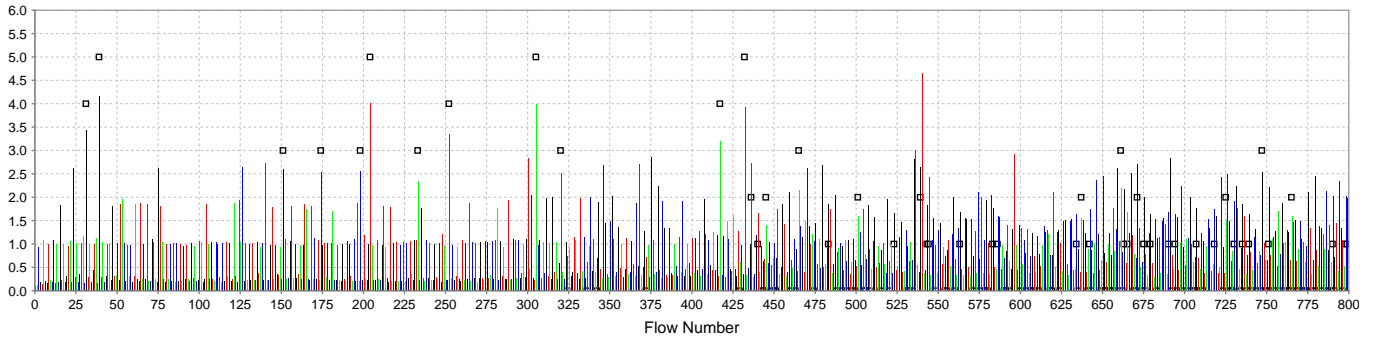


## Region 1

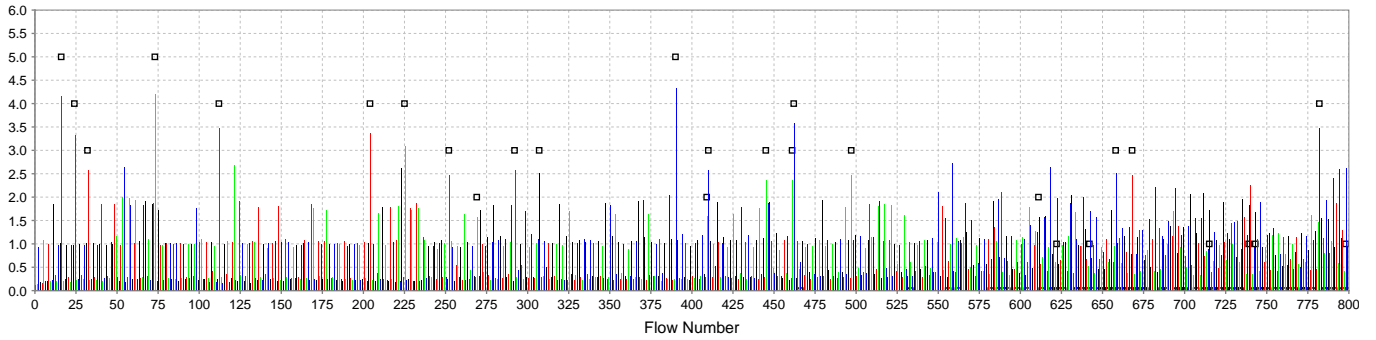
### AVTF100



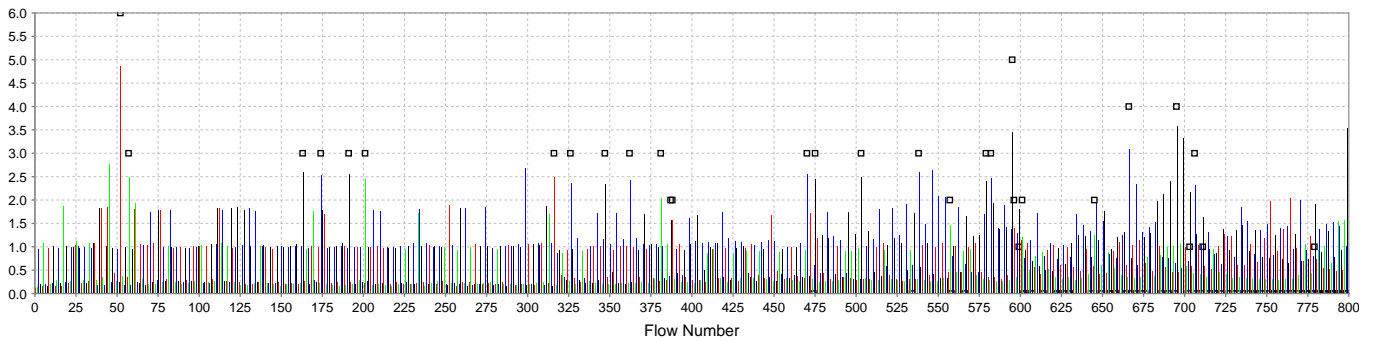
### AVTF120



### AVTF150

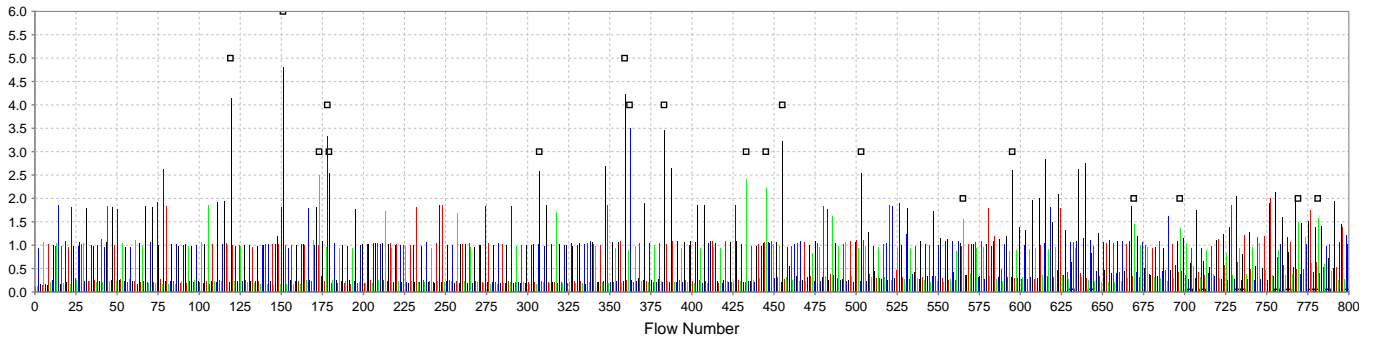


### AVTF2

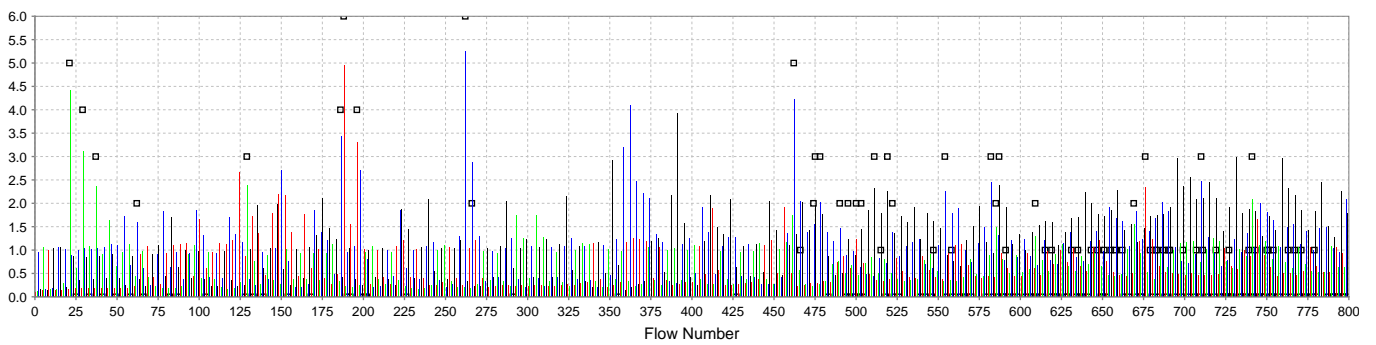




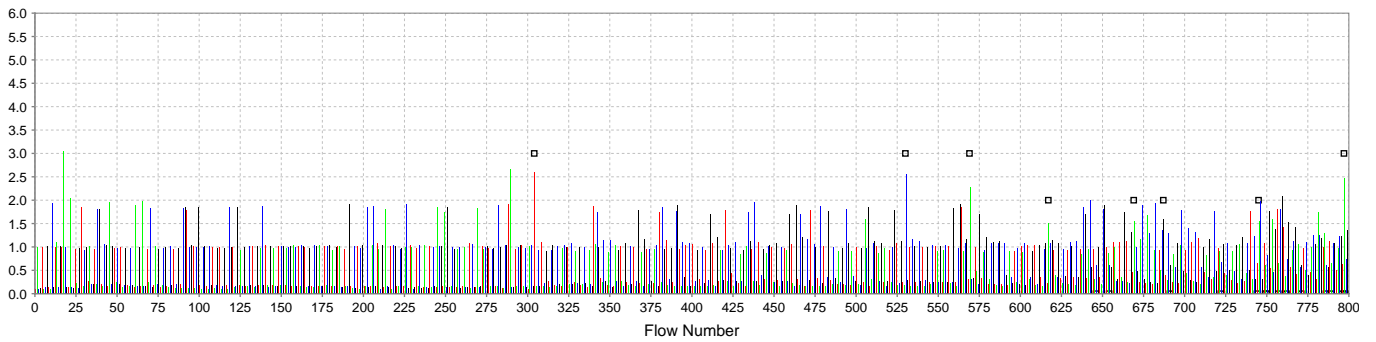
**AVTF7**



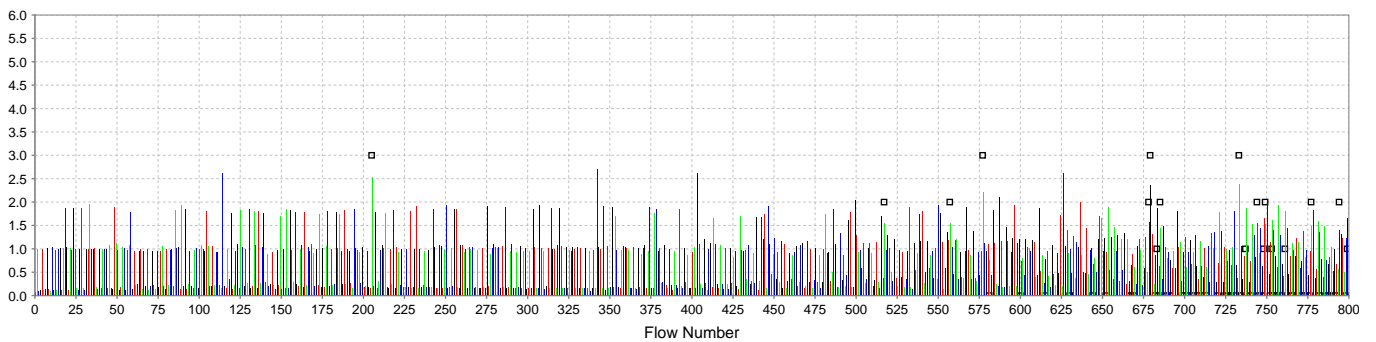
**AVTF90**



**ECTF301**

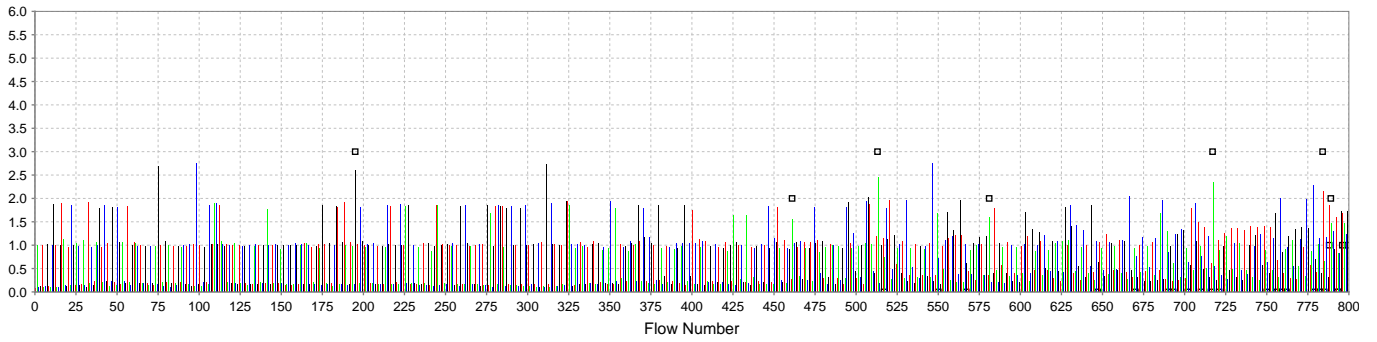


**ECTF302**

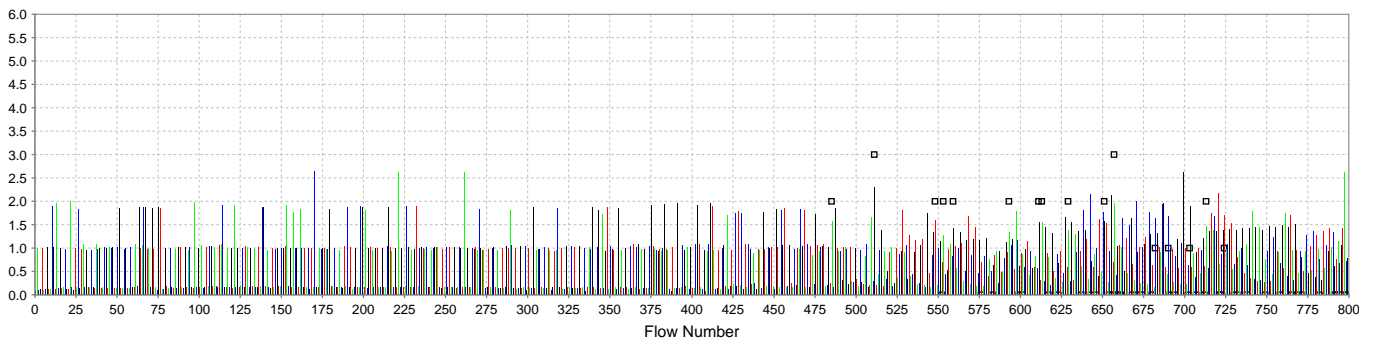




**ECTF303**



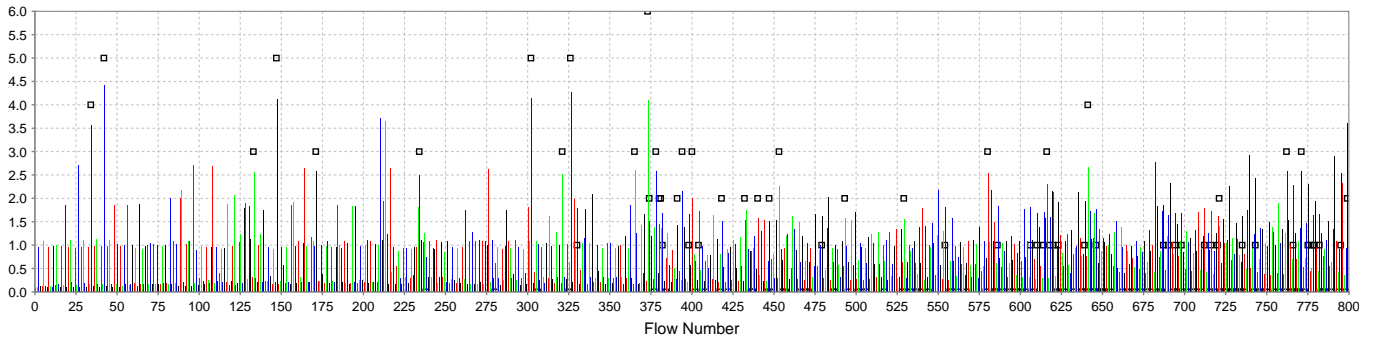
**ECTF304**



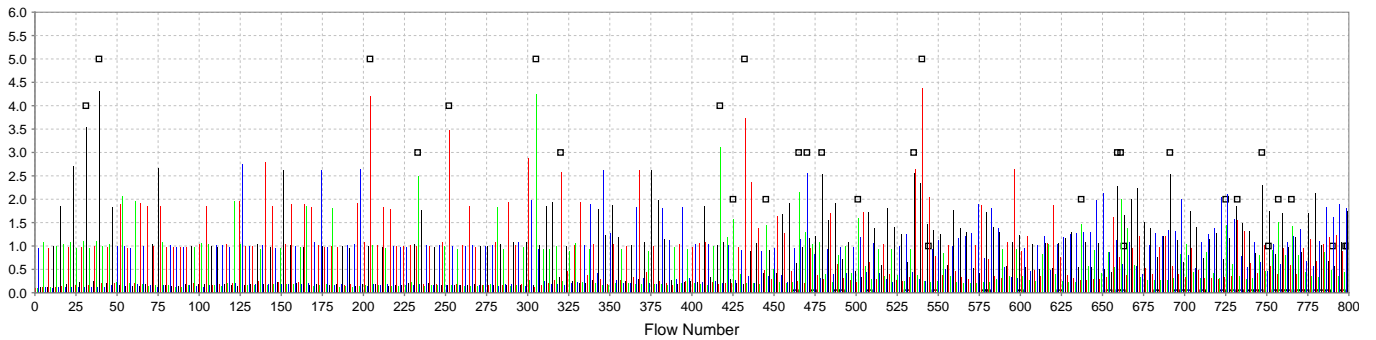


## Region 2

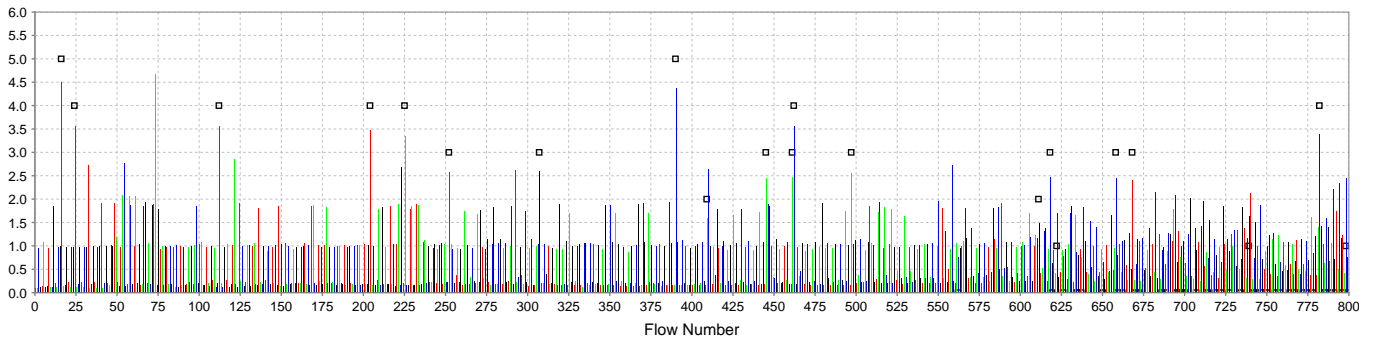
### AVTF100



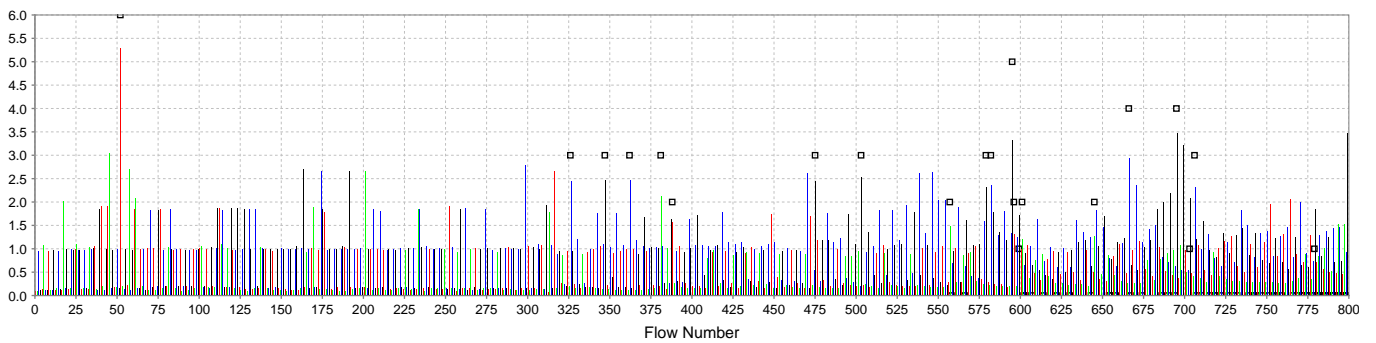
### AVTF120



### AVTF150

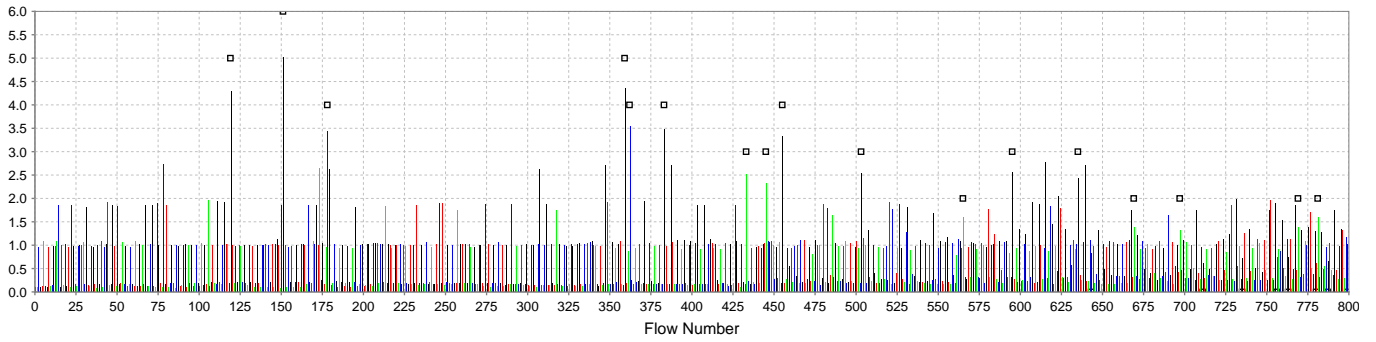


### AVTF2

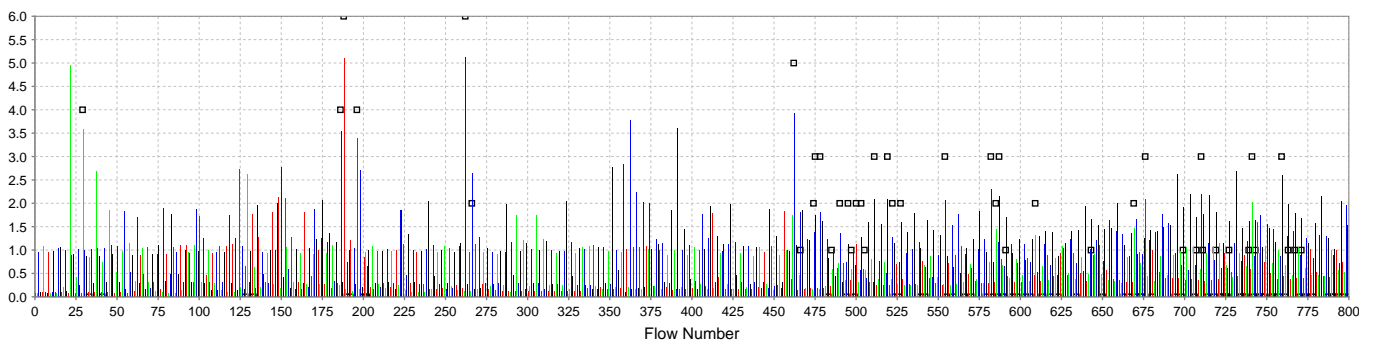




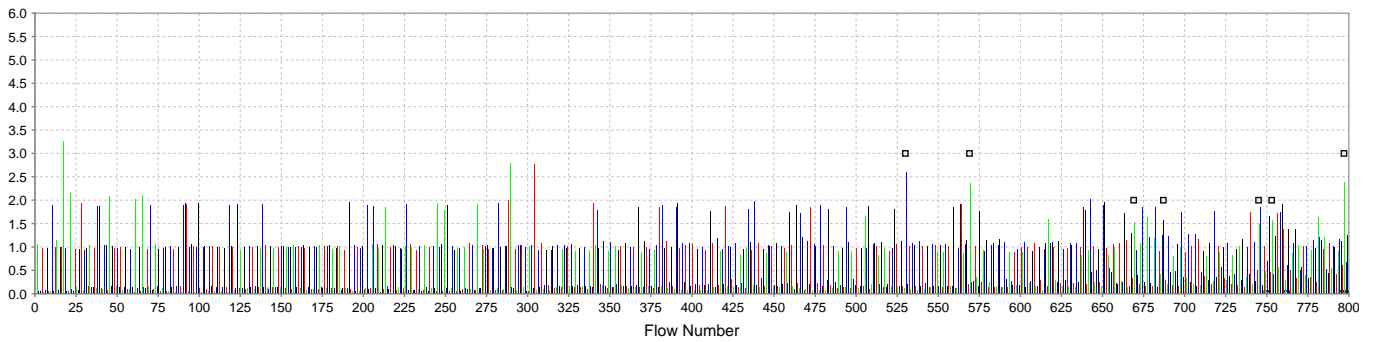
**AVTF7**



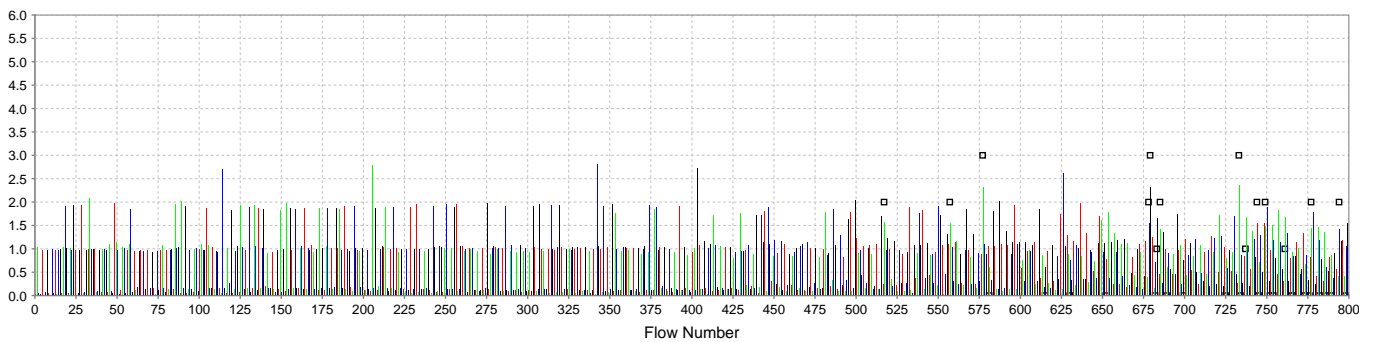
**AVTF90**



**ECTF301**

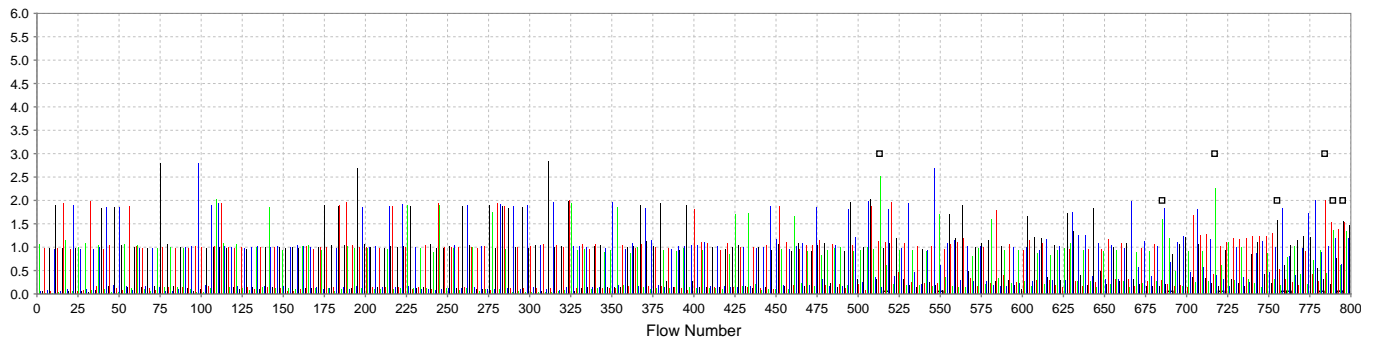


**ECTF302**

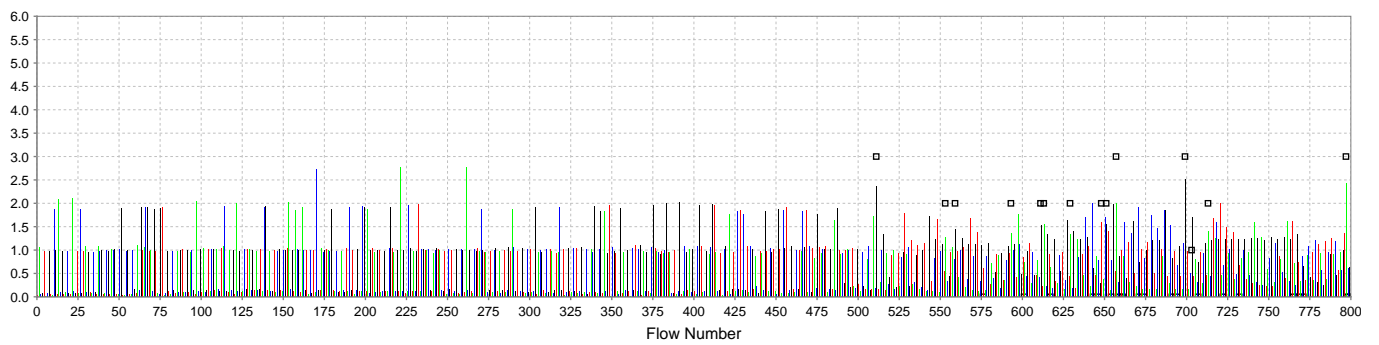




**ECTF303**



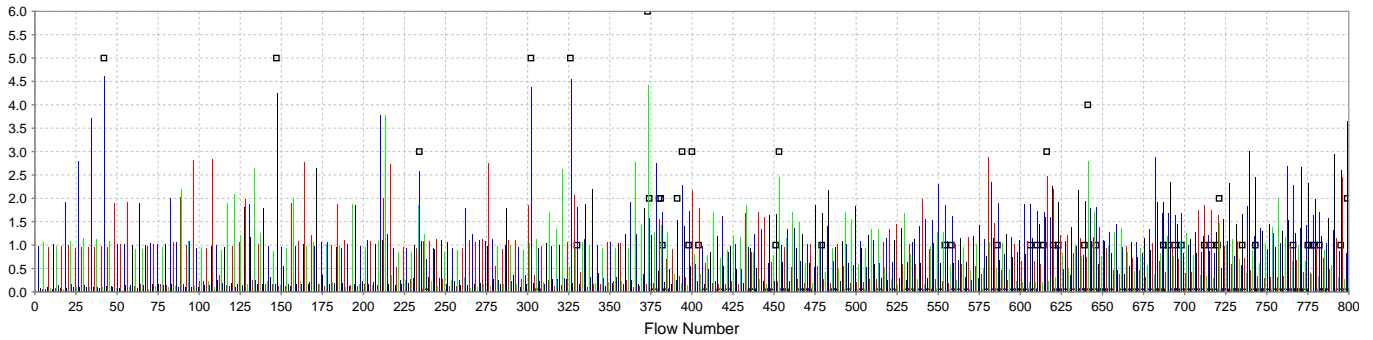
**ECTF304**



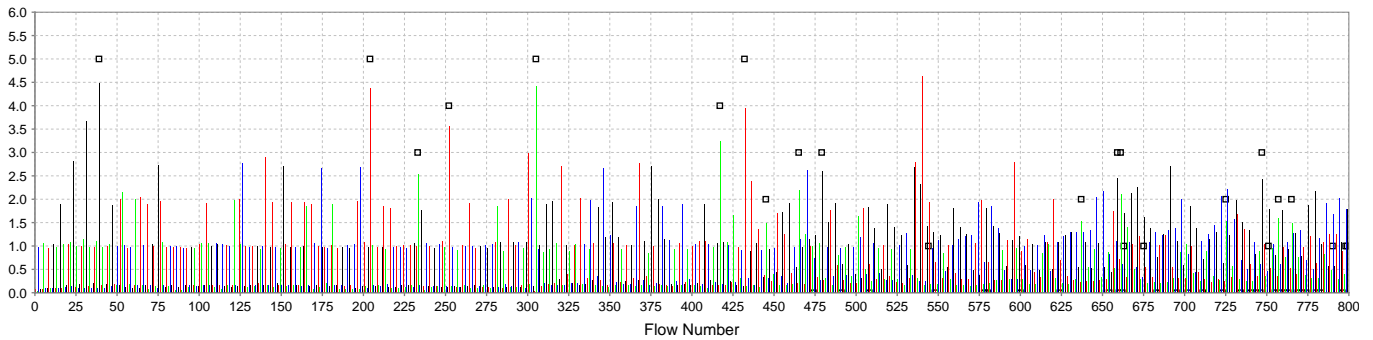


### Region 3

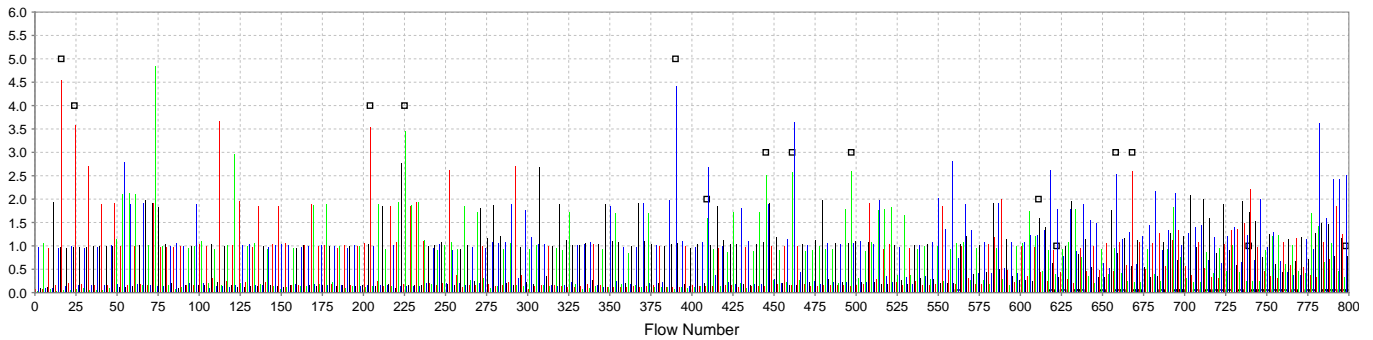
#### AVTF100



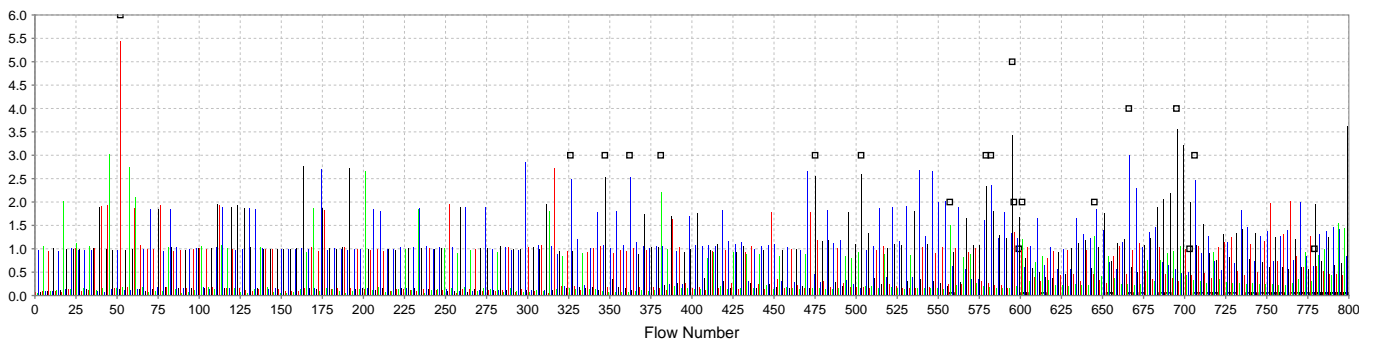
#### AVTF120



#### AVTF150

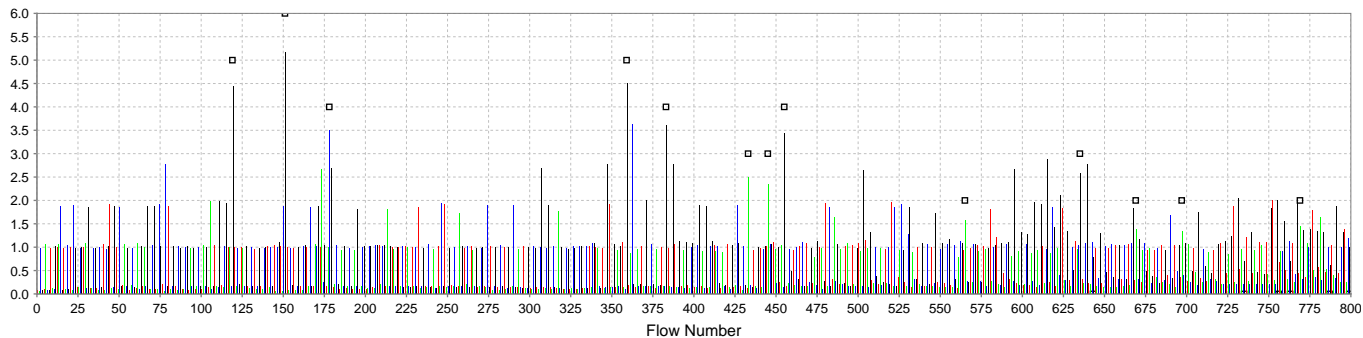


#### AVTF2

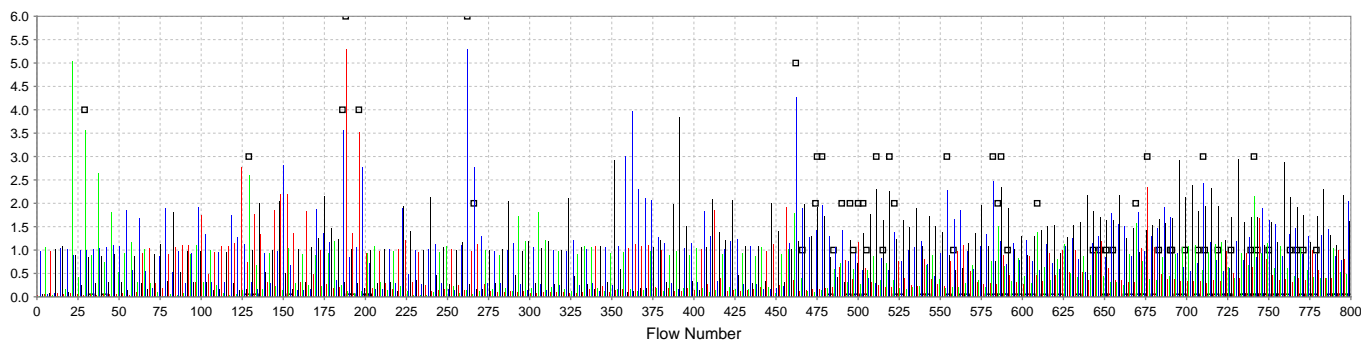




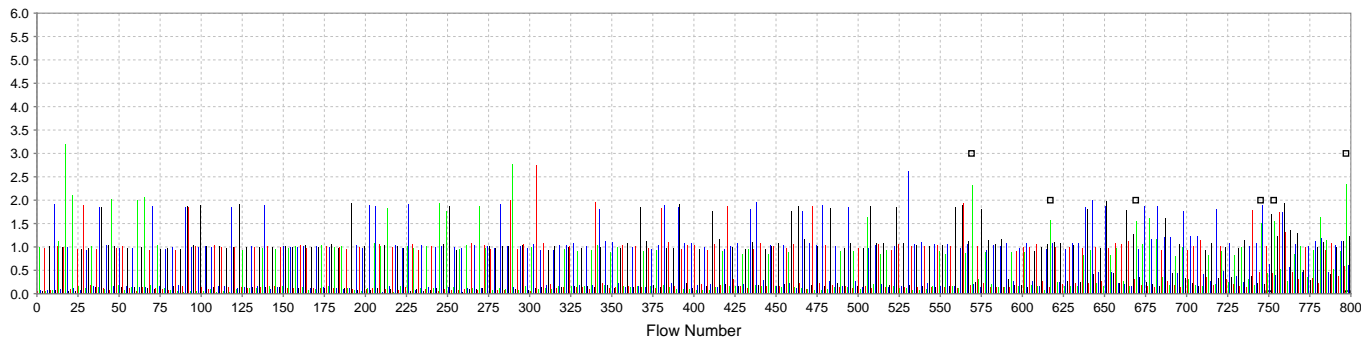
**AVTF7**



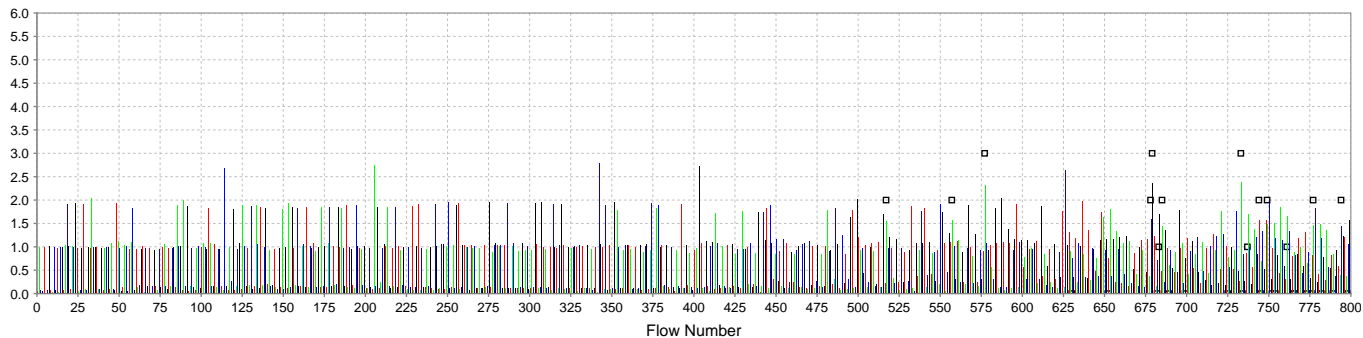
**AVTF90**



**ECTF301**

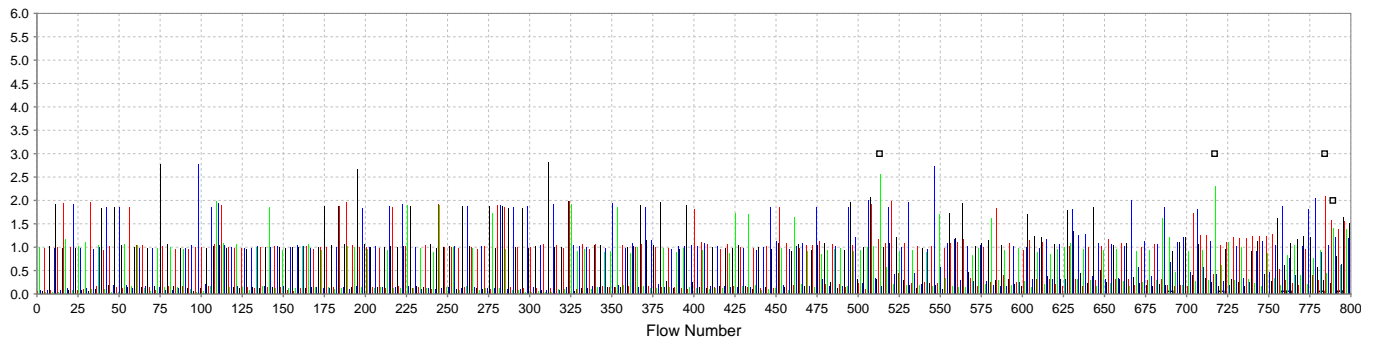


**ECTF302**

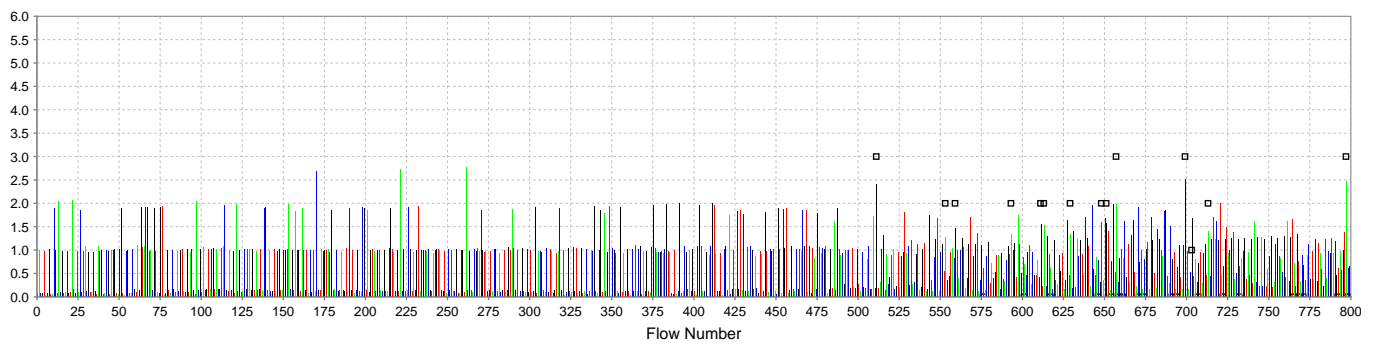




**ECTF303**



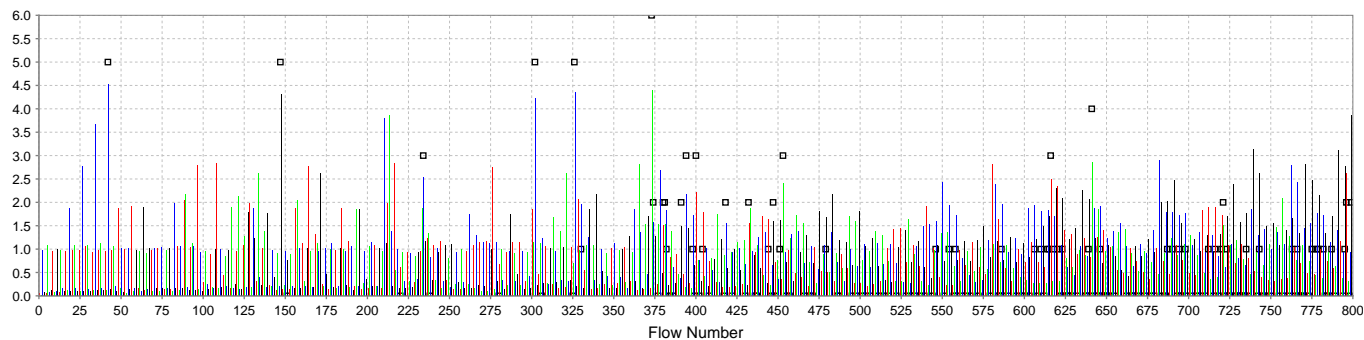
**ECTF304**



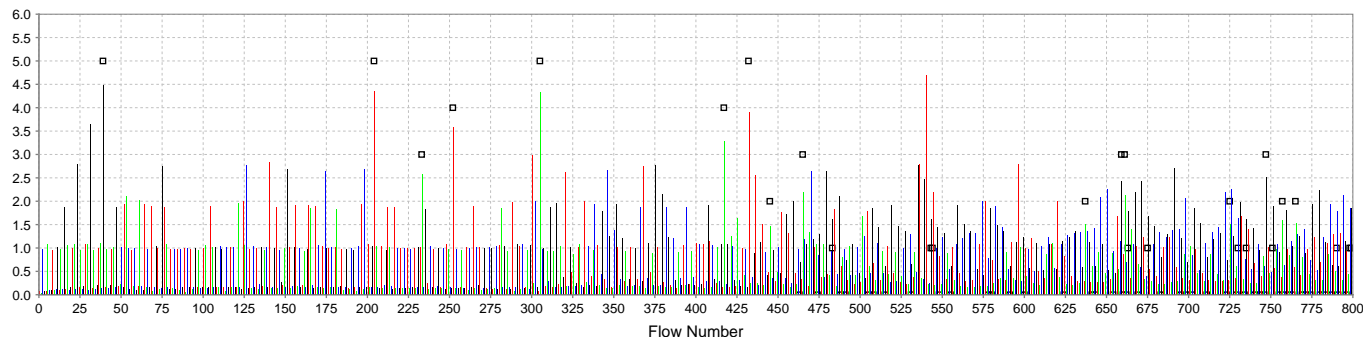


## Region 4

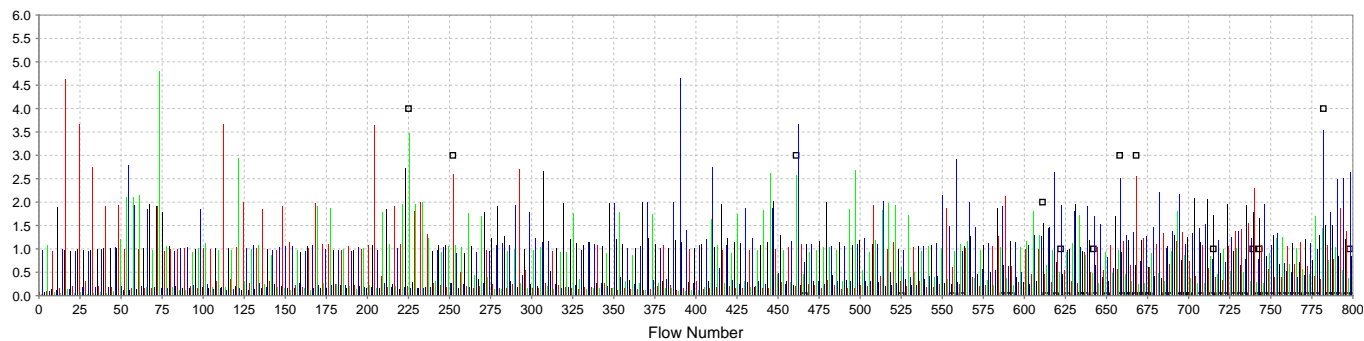
### AVTF100



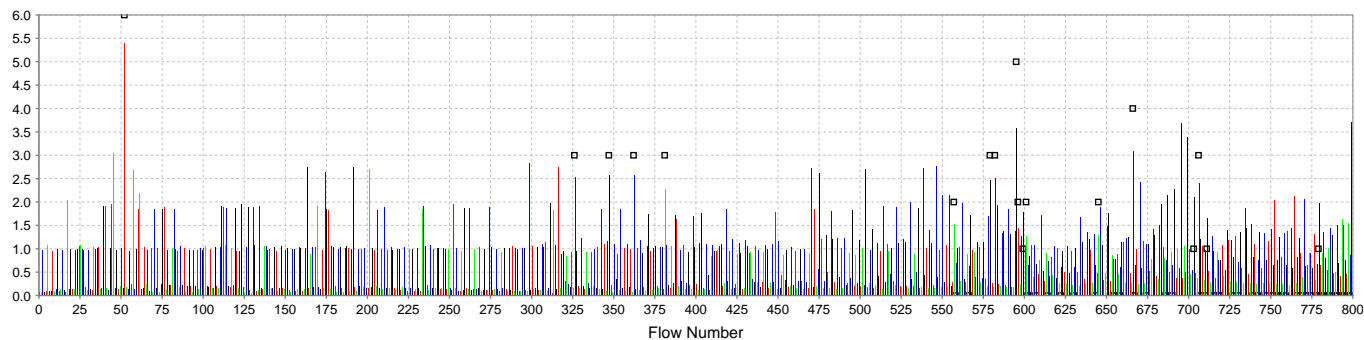
### AVTF120



### AVTF150

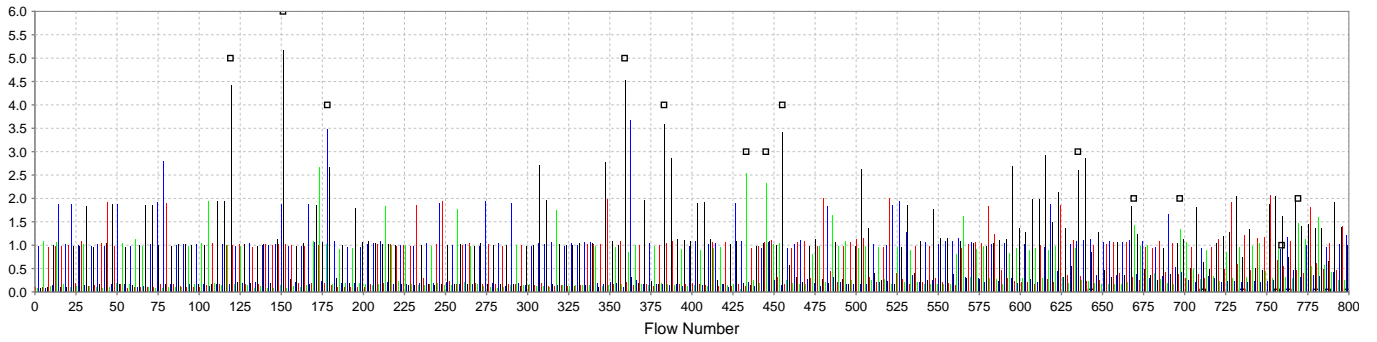


### AVTF2

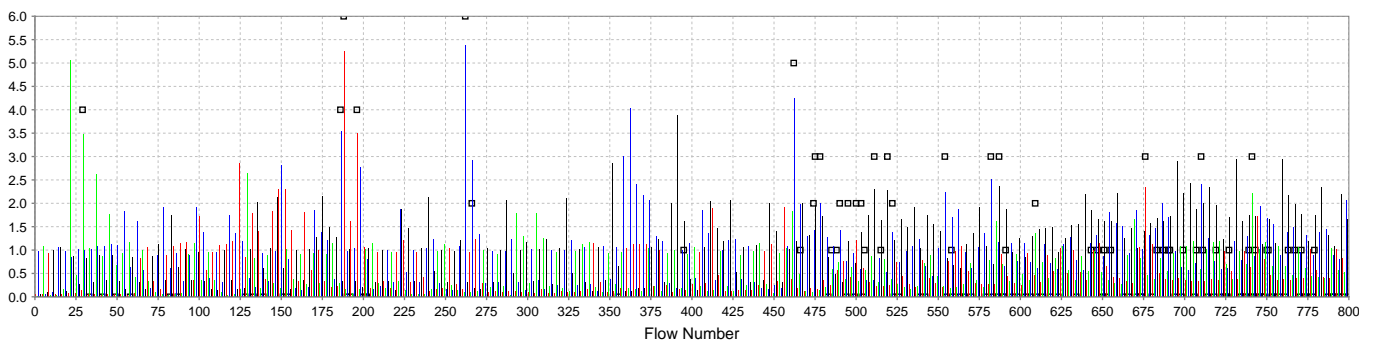




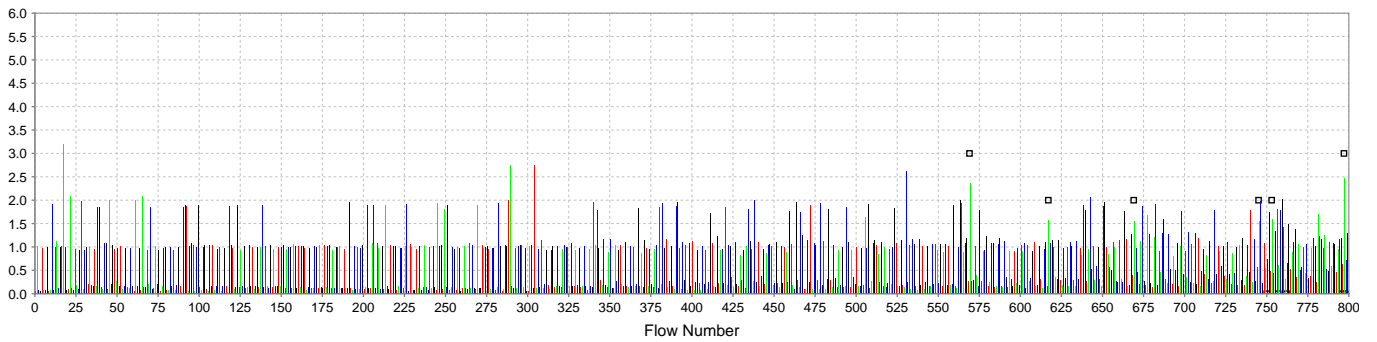
**AVTF7**



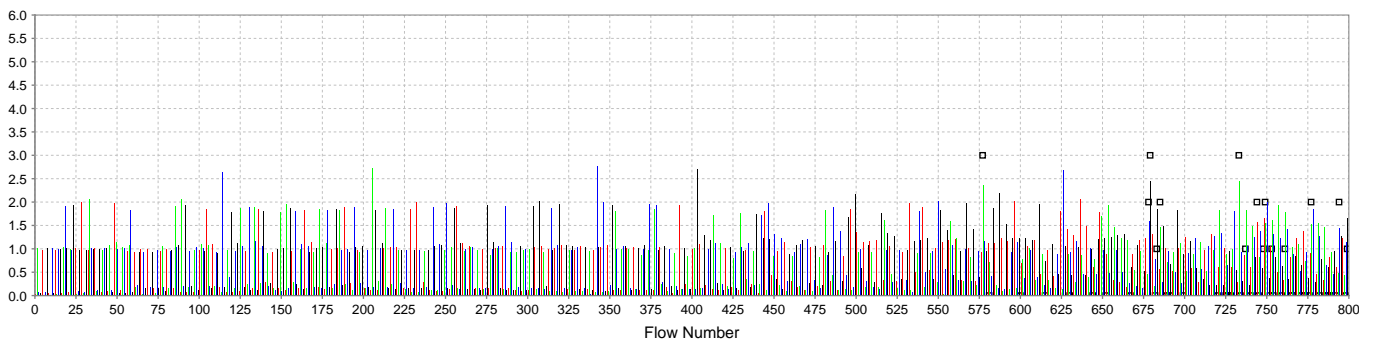
**AVTF90**



**ECTF301**

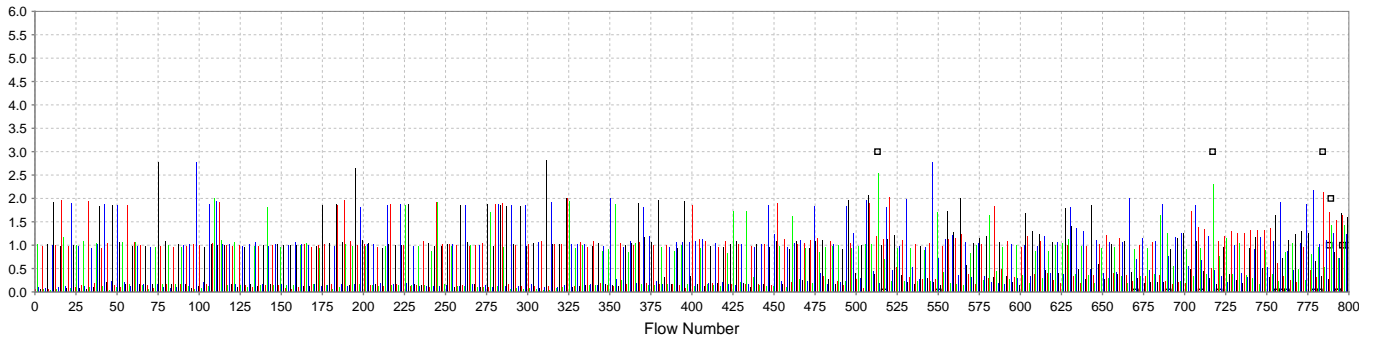


**ECTF302**

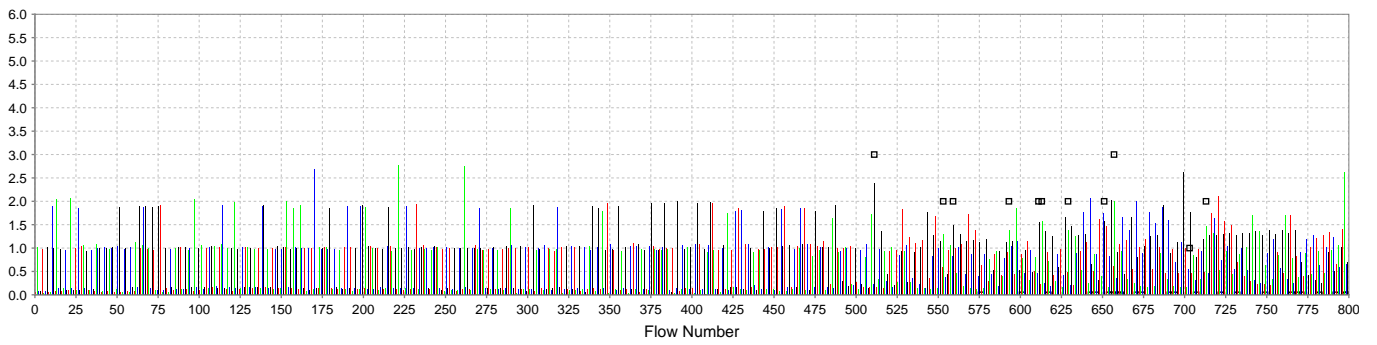




**ECTF303**



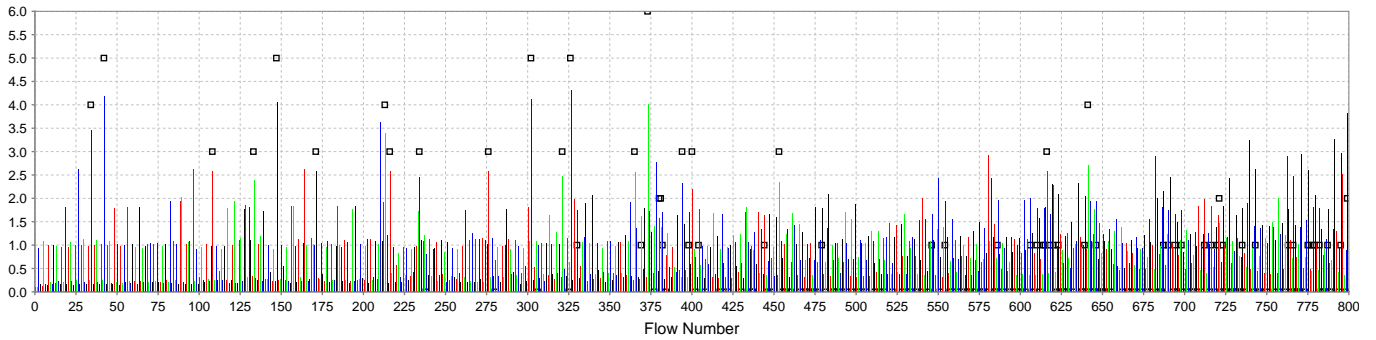
**ECTF304**



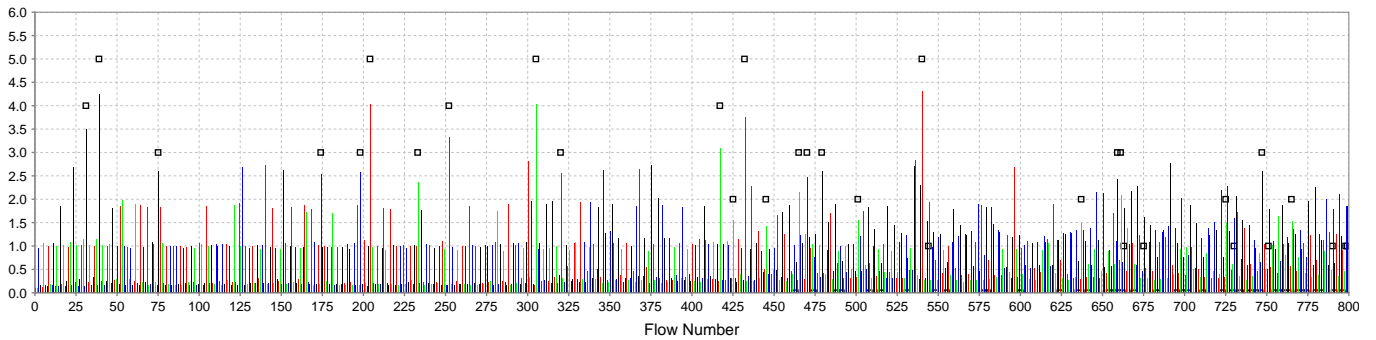


## Region 5

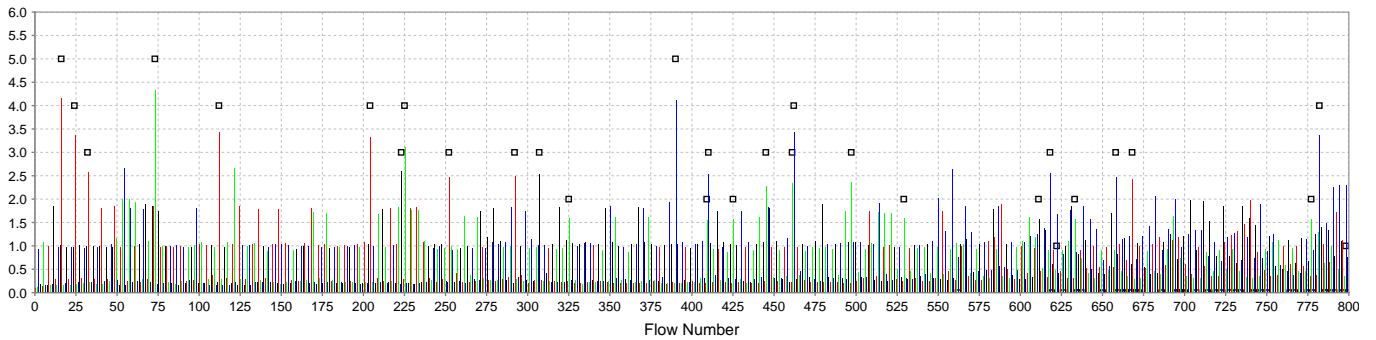
### AVTF100



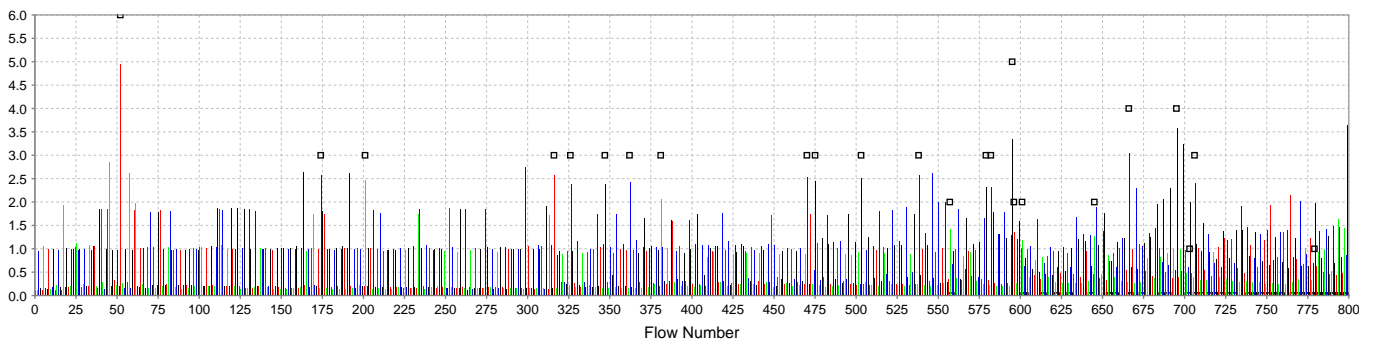
### AVTF120



### AVTF150

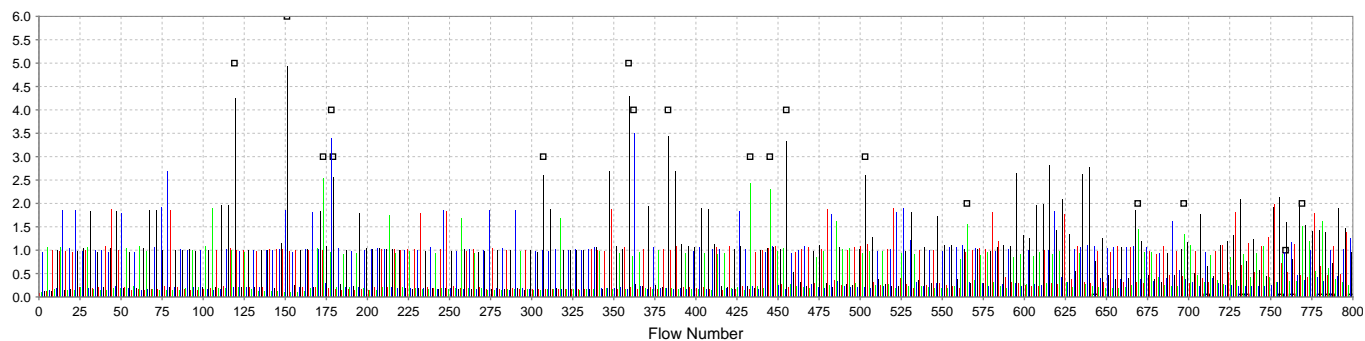


### AVTF2

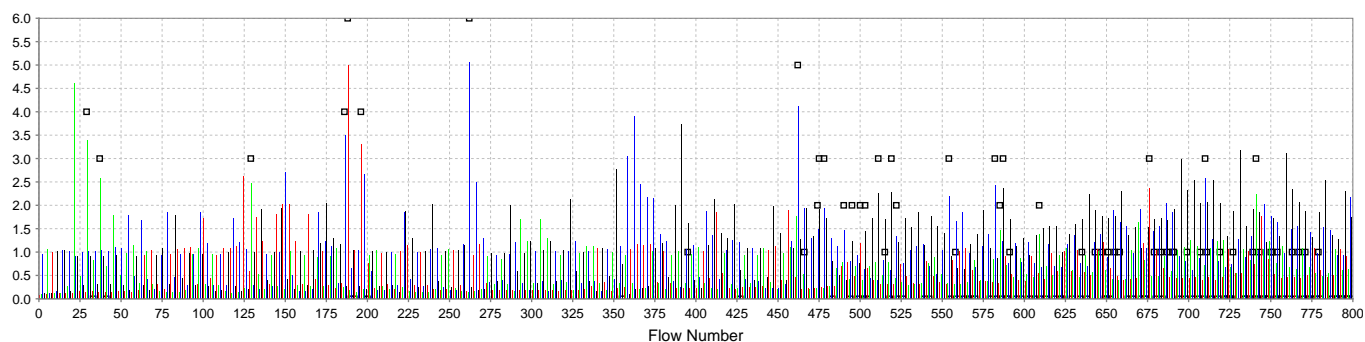




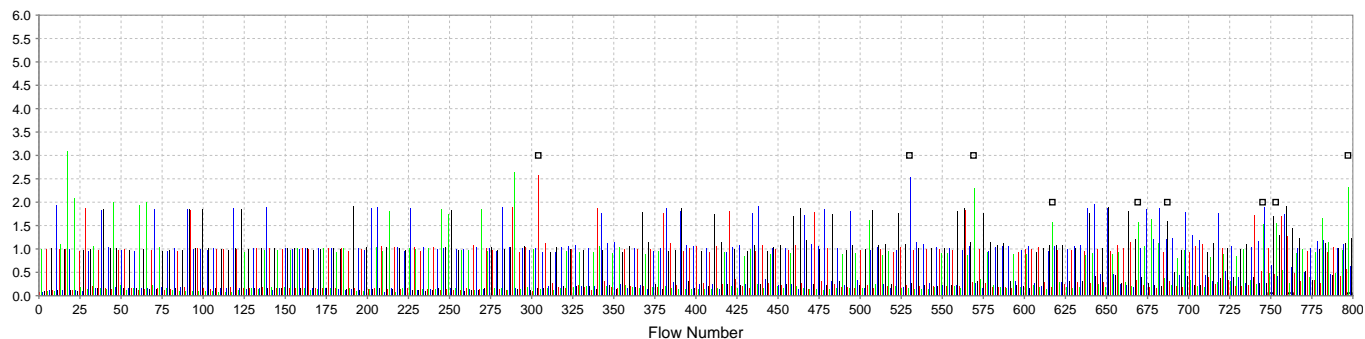
**AVTF7**



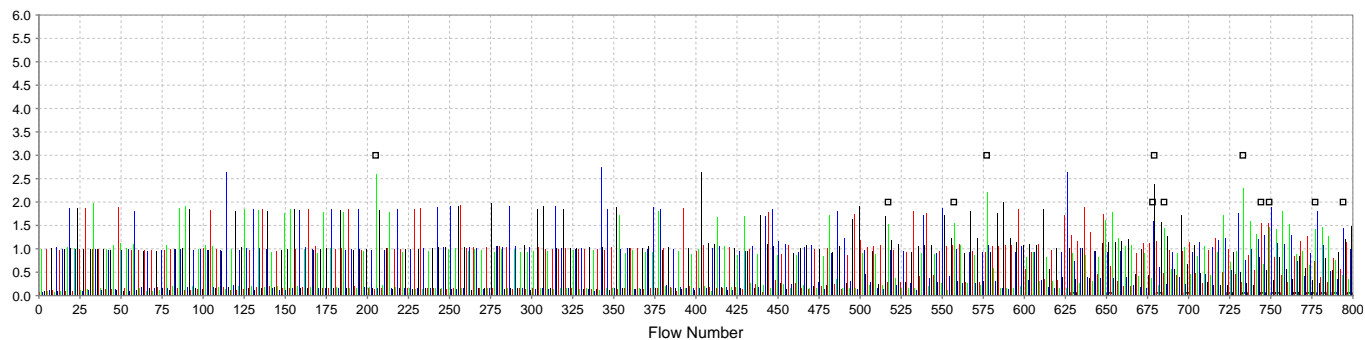
**AVTF90**



**ECTF301**

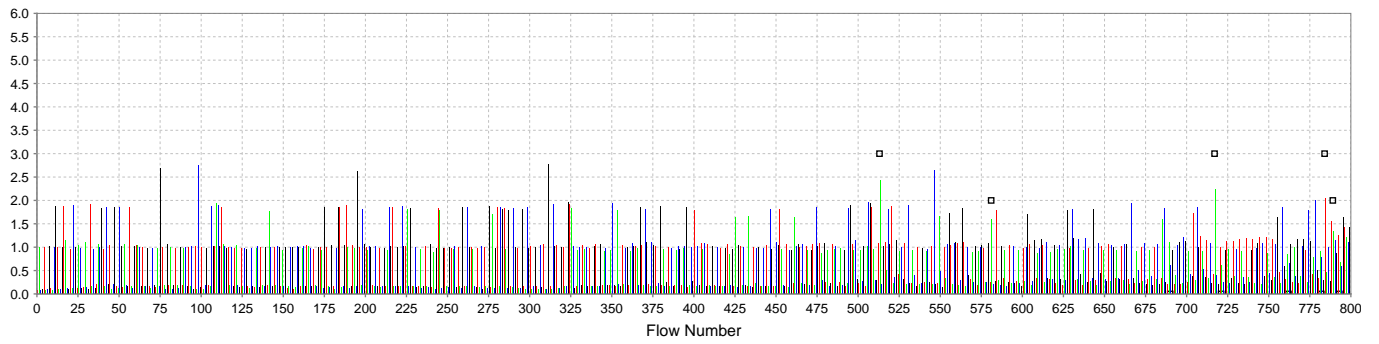


**ECTF302**

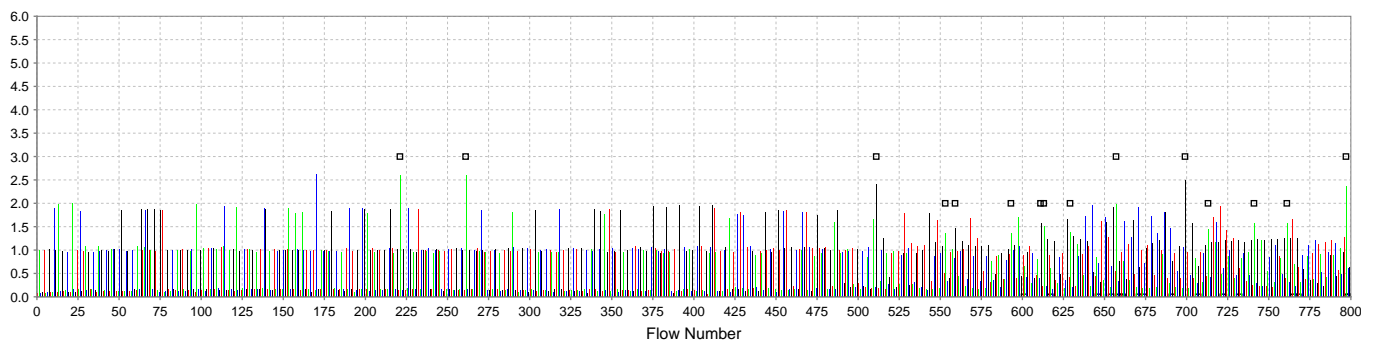




**ECTF303**



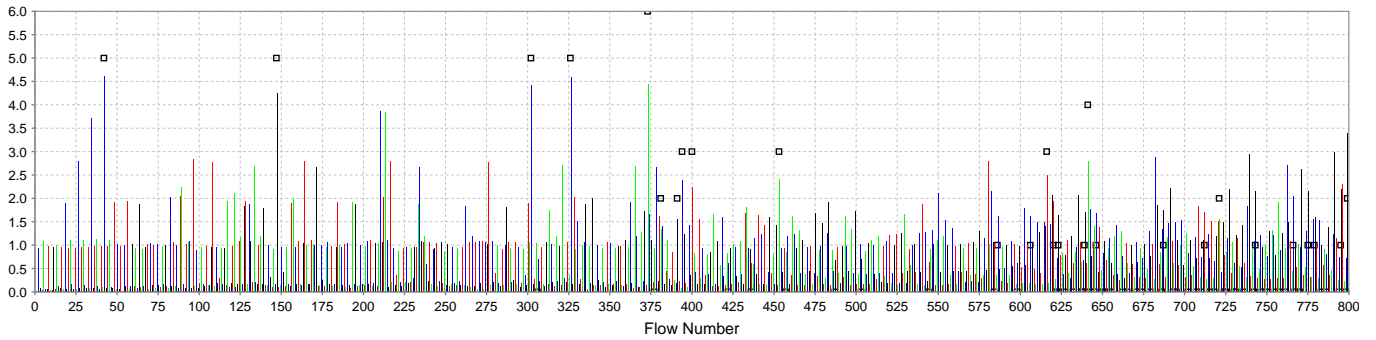
**ECTF304**



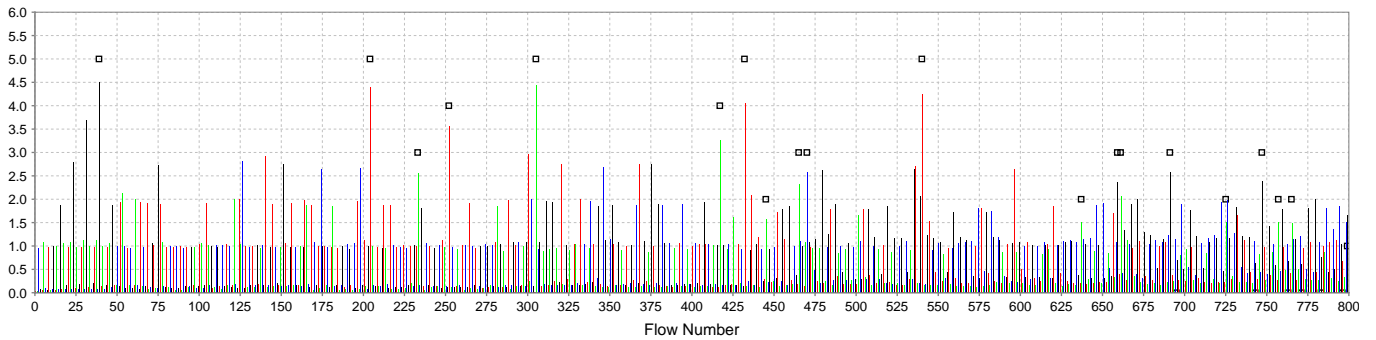


## Region 6

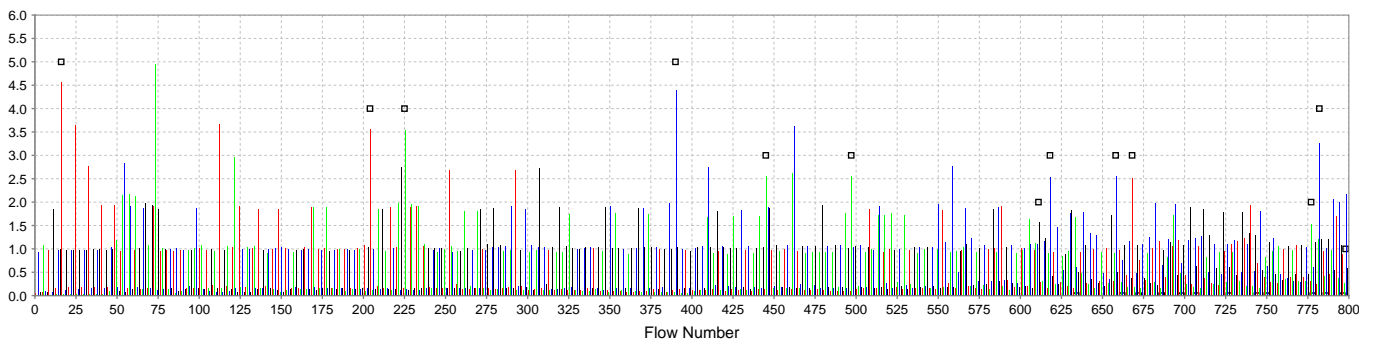
### AVTF100



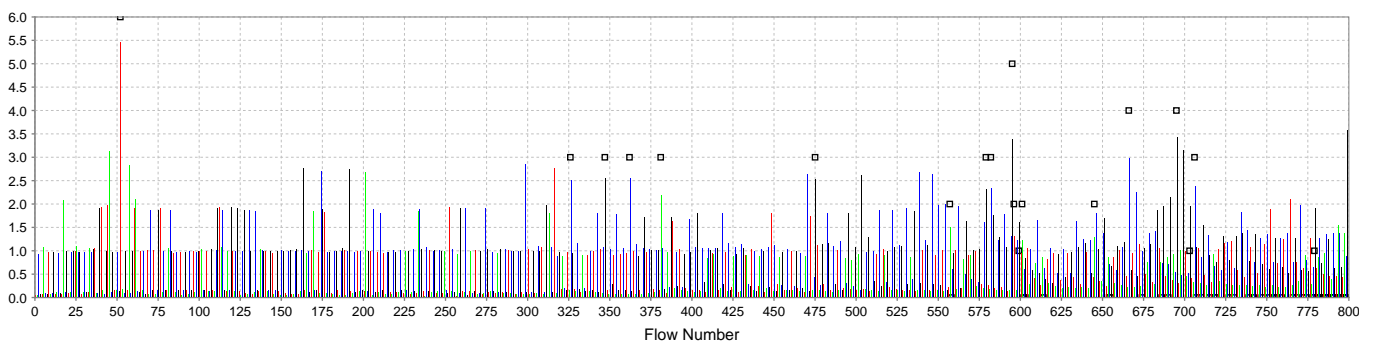
### AVTF120



### AVTF150

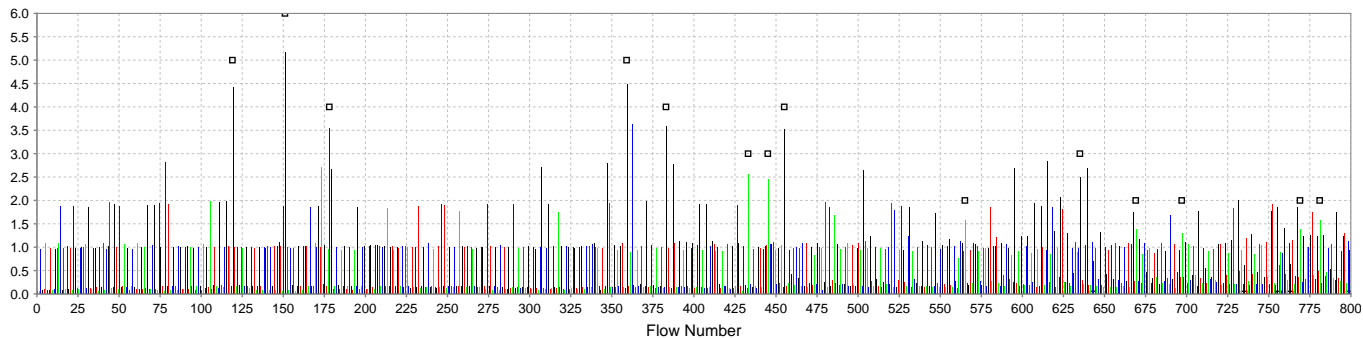


### AVTF2

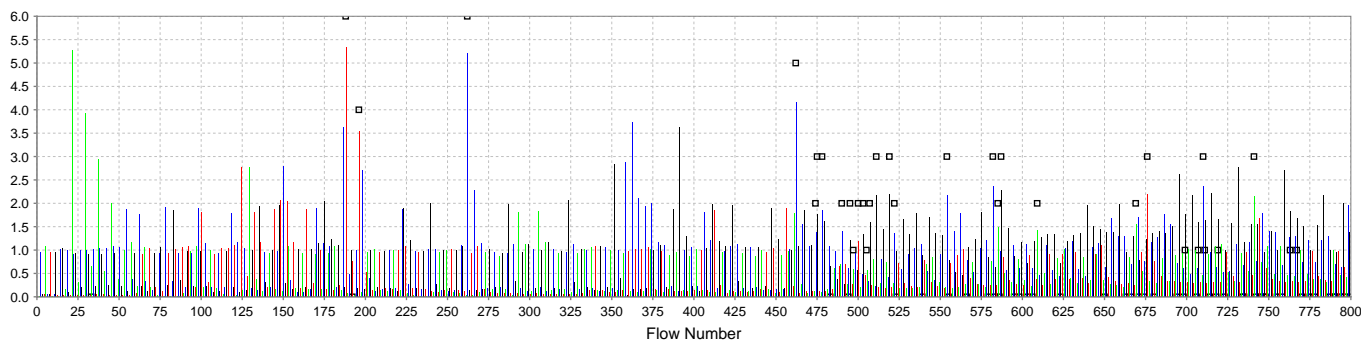




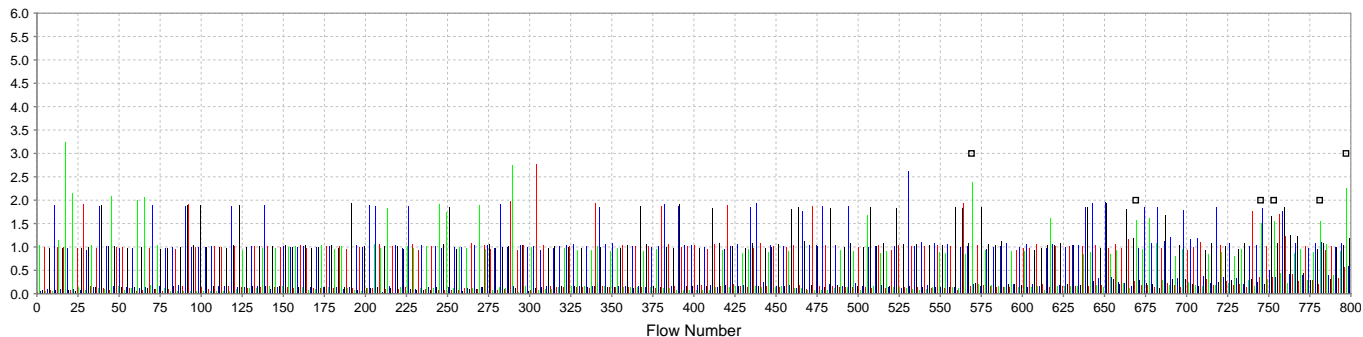
**AVTF7**



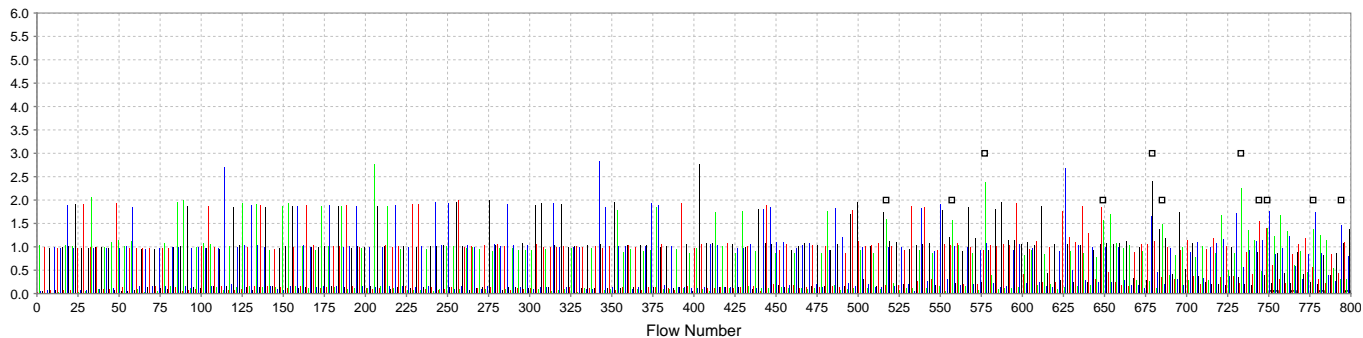
**AVTF90**



**ECTF301**

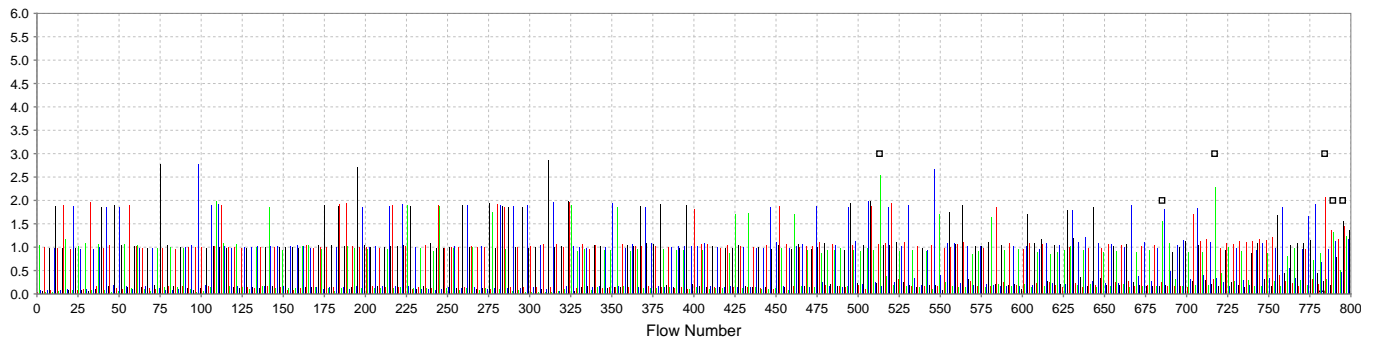


**ECTF302**

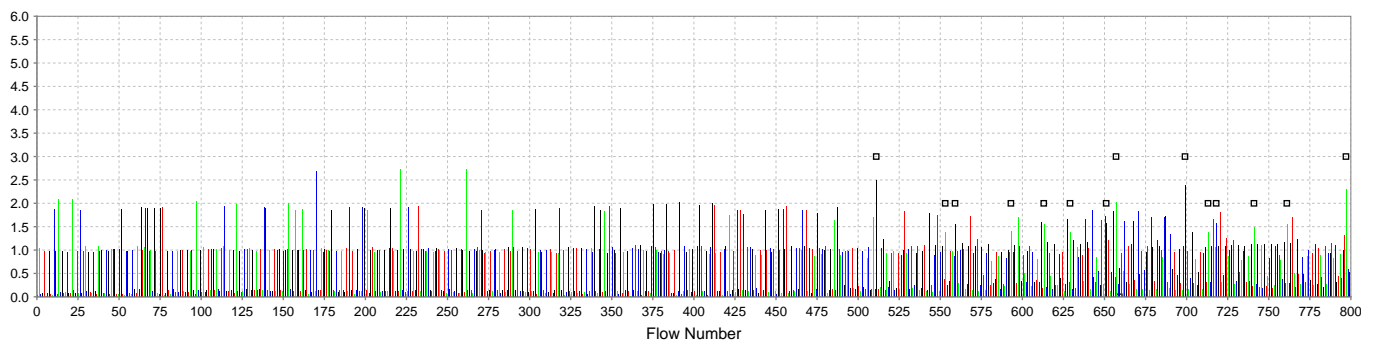




**ECTF303**



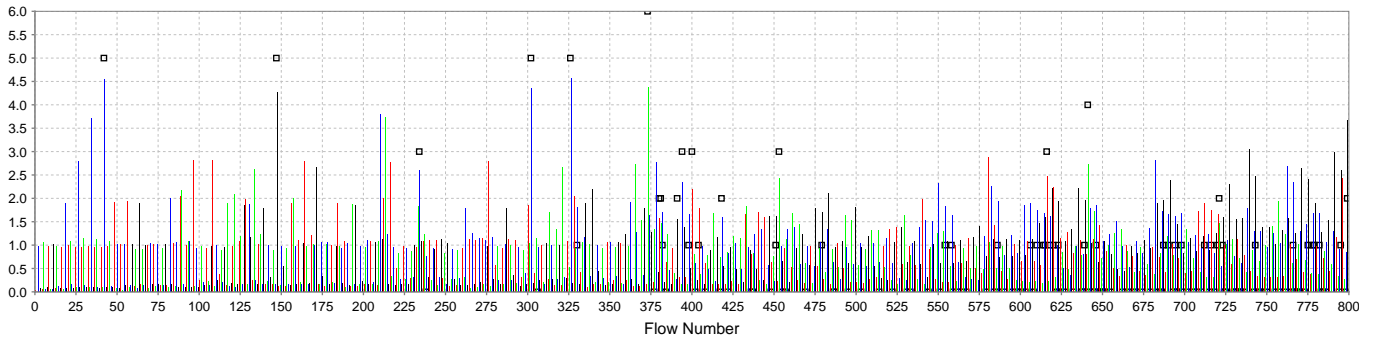
**ECTF304**



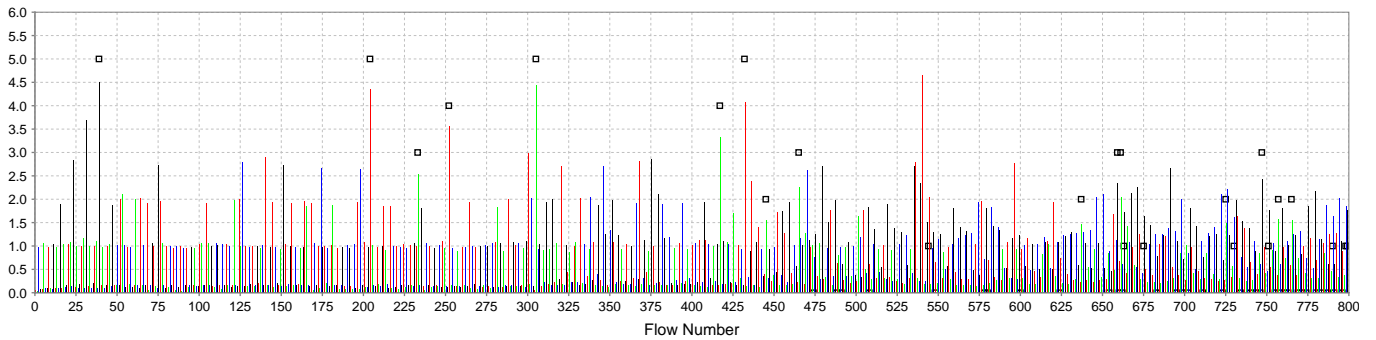


## Region 7

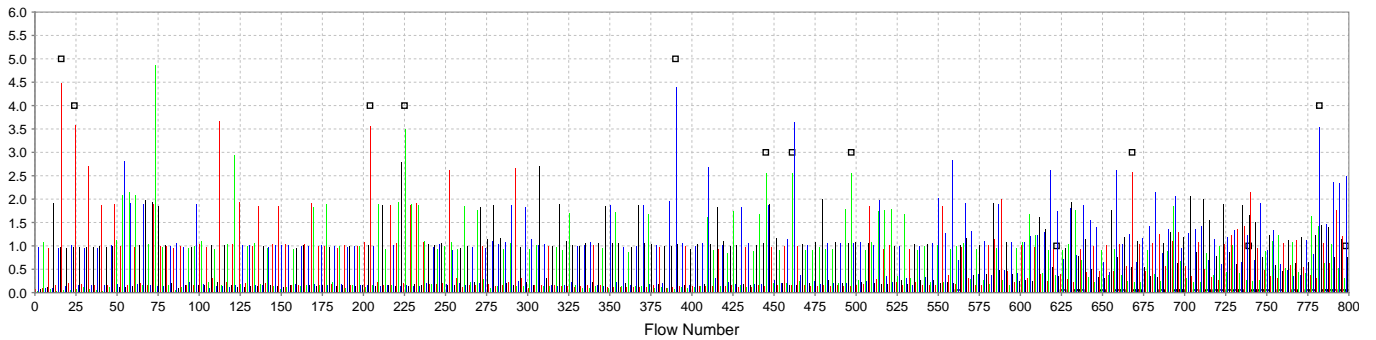
### AVTF100



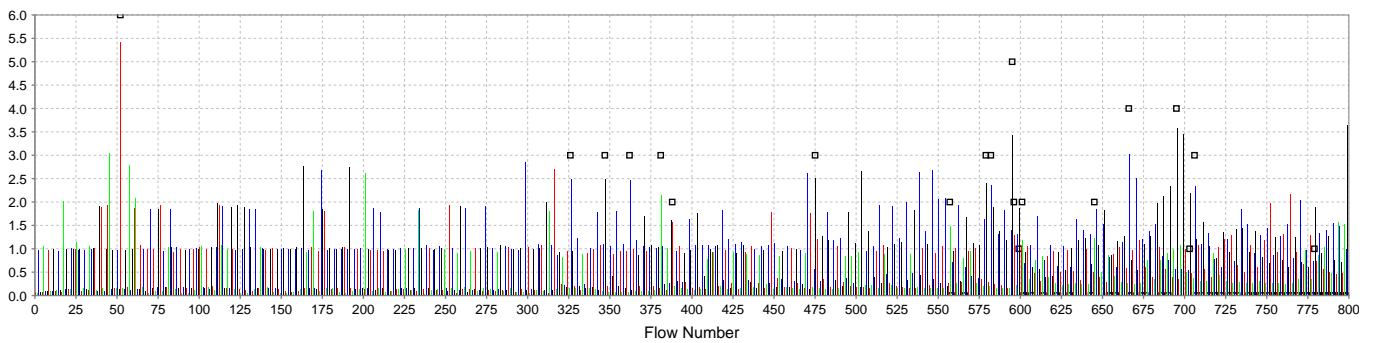
### AVTF120



### AVTF150

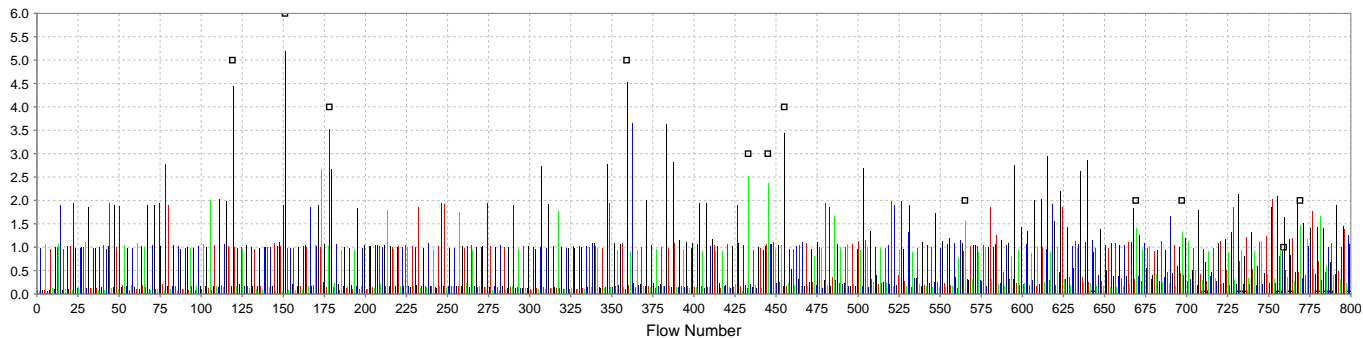


### AVTF2

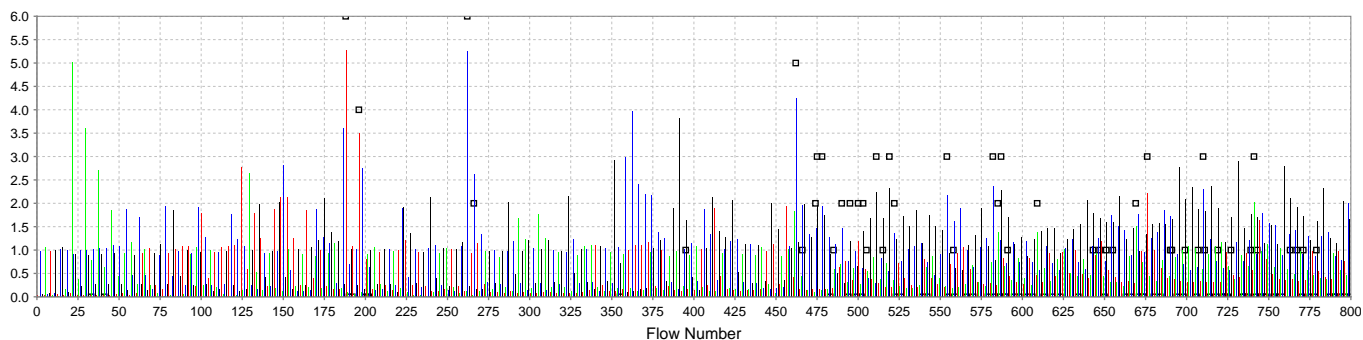




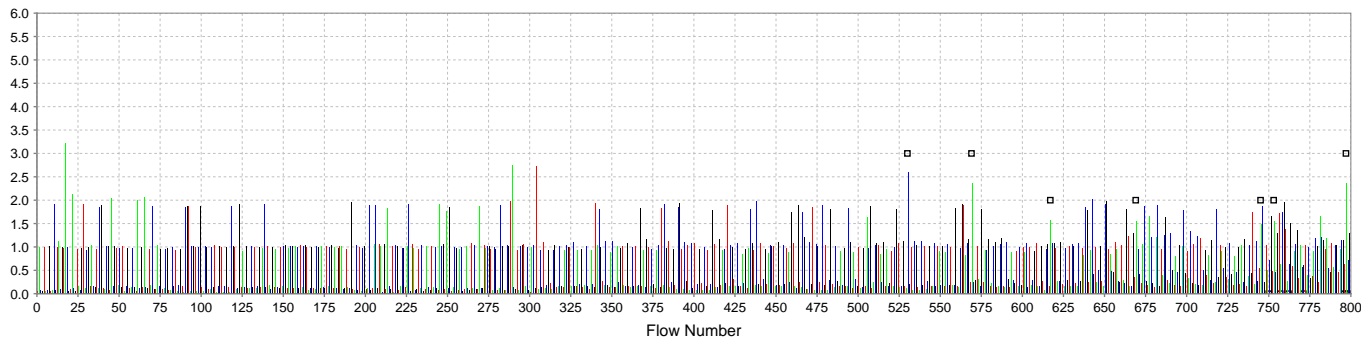
**AVTF7**



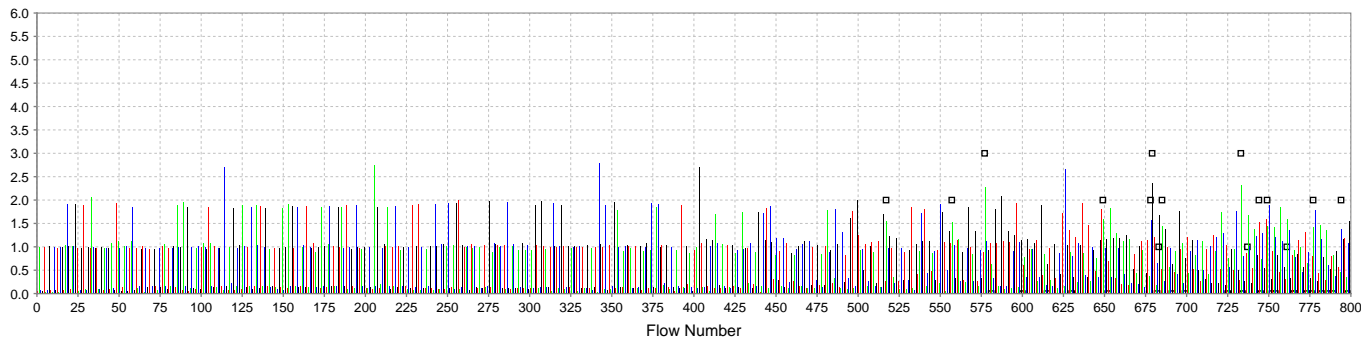
**AVTF90**



**ECTF301**

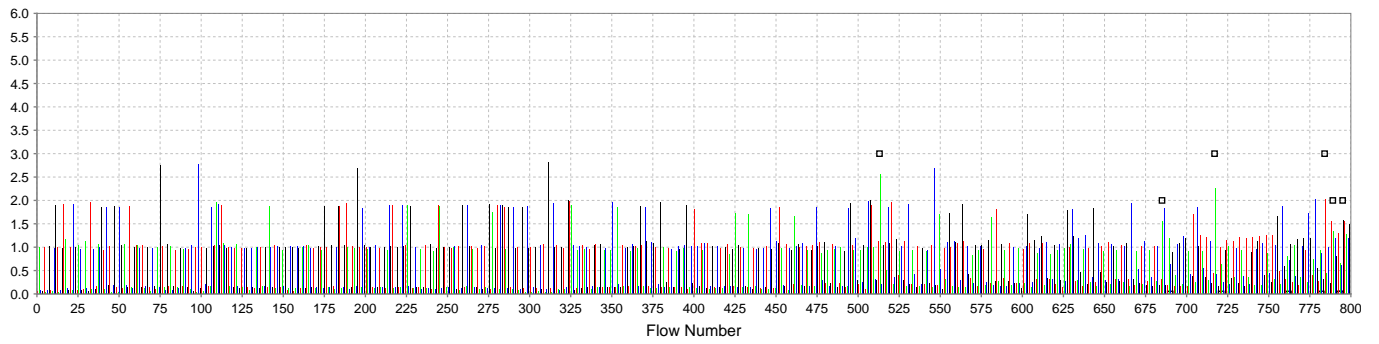


**ECTF302**

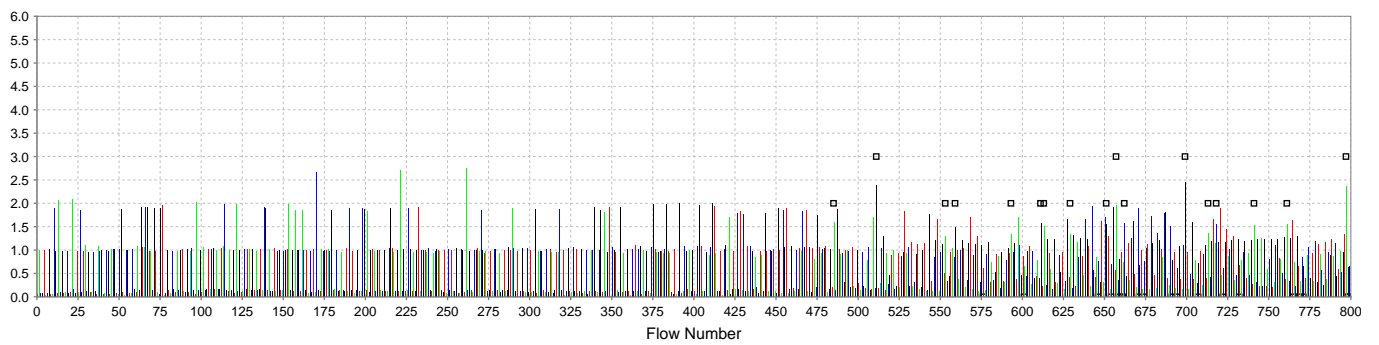




**ECTF303**



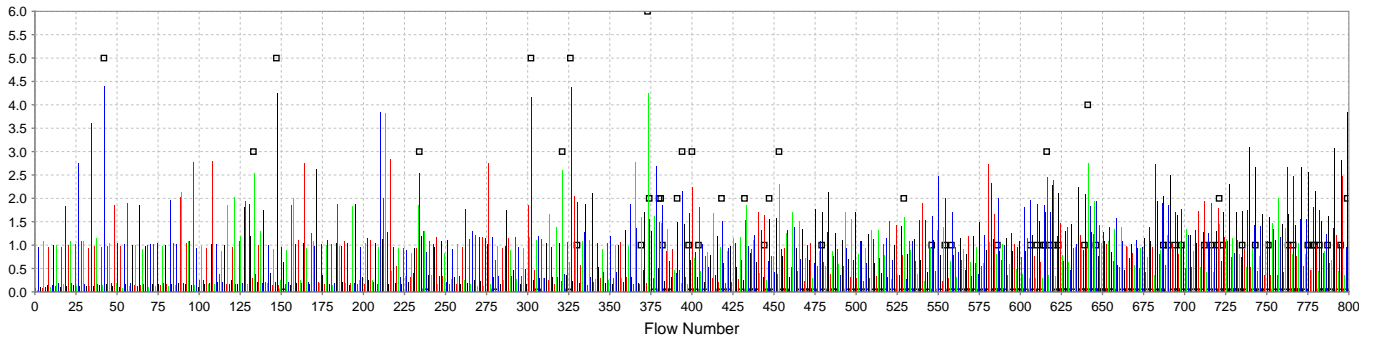
**ECTF304**



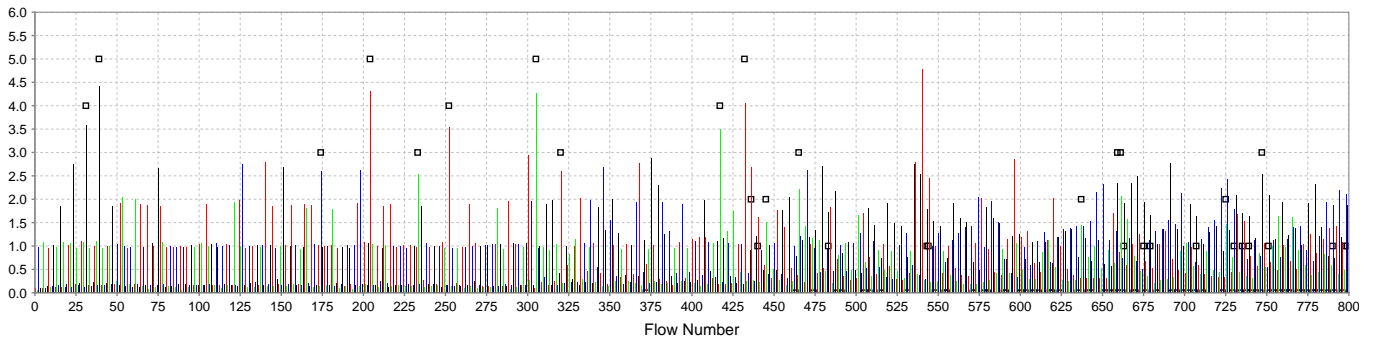


## Region 8

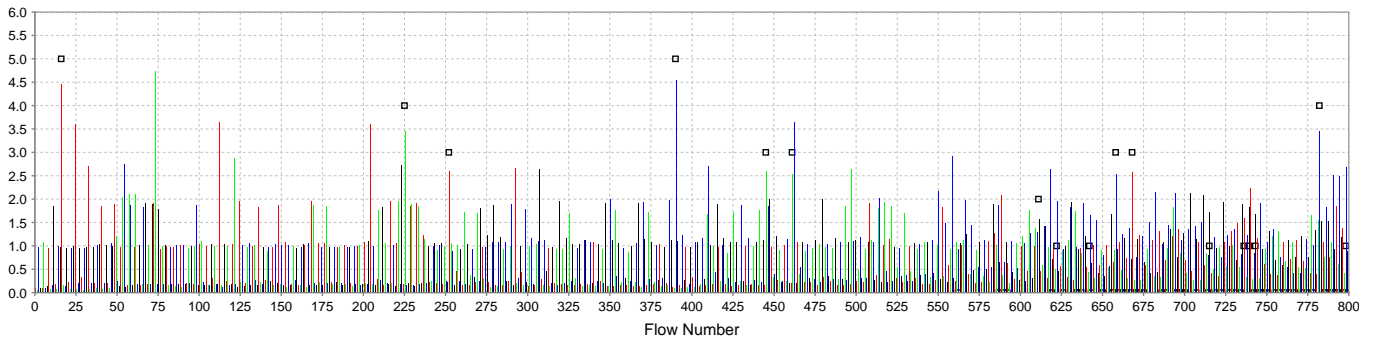
### AVTF100



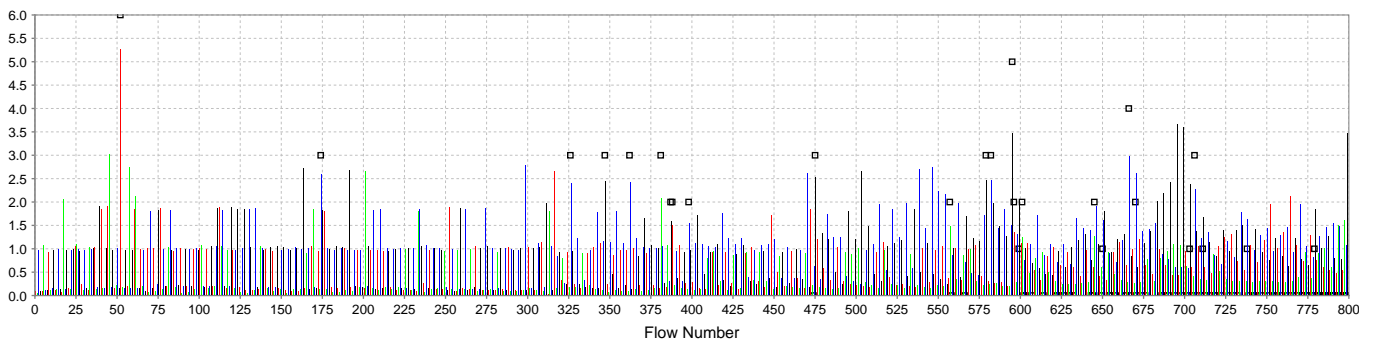
### AVTF120



### AVTF150

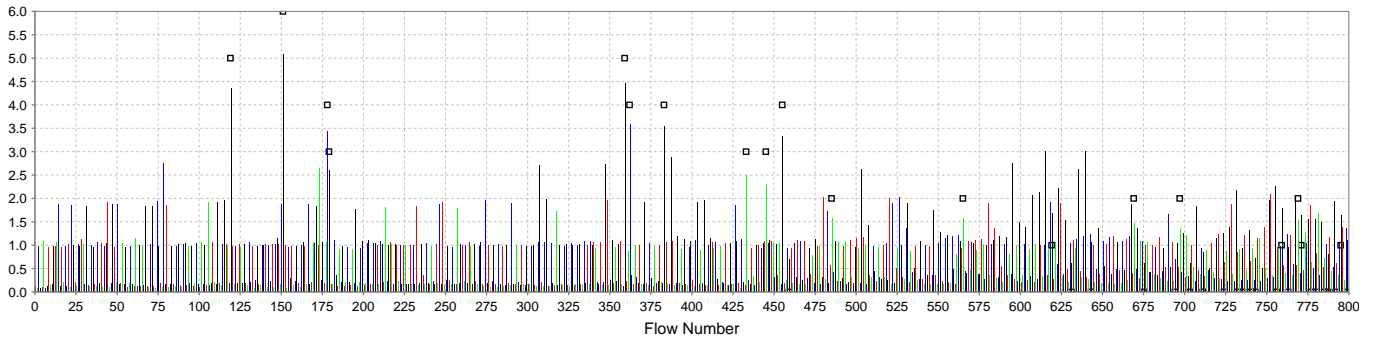


### AVTF2

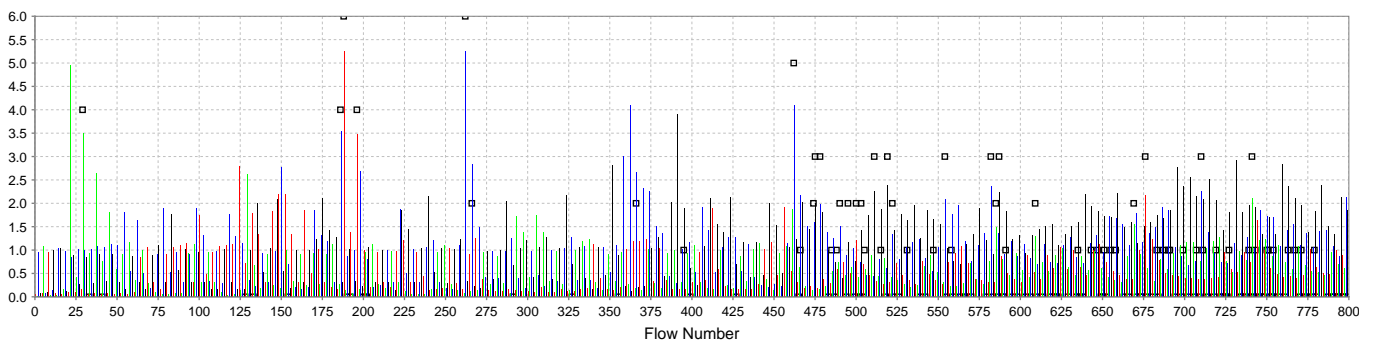




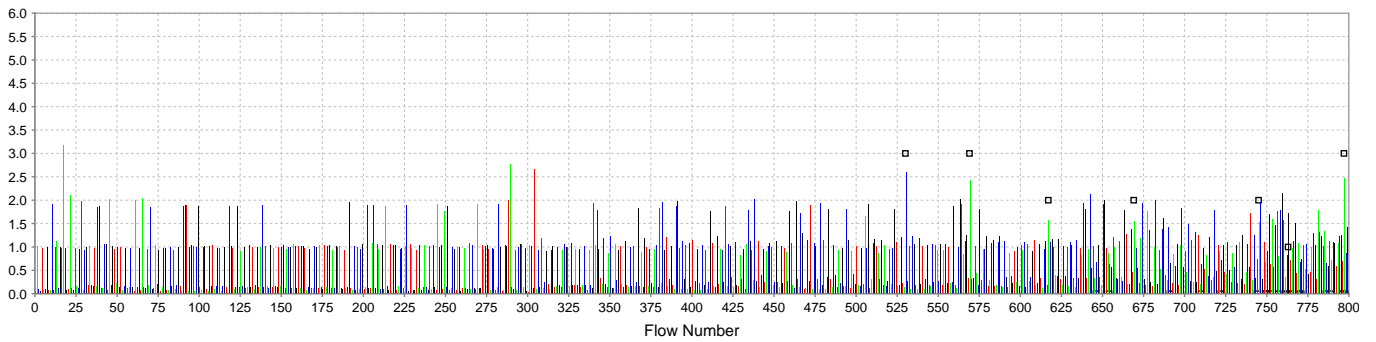
**AVTF7**



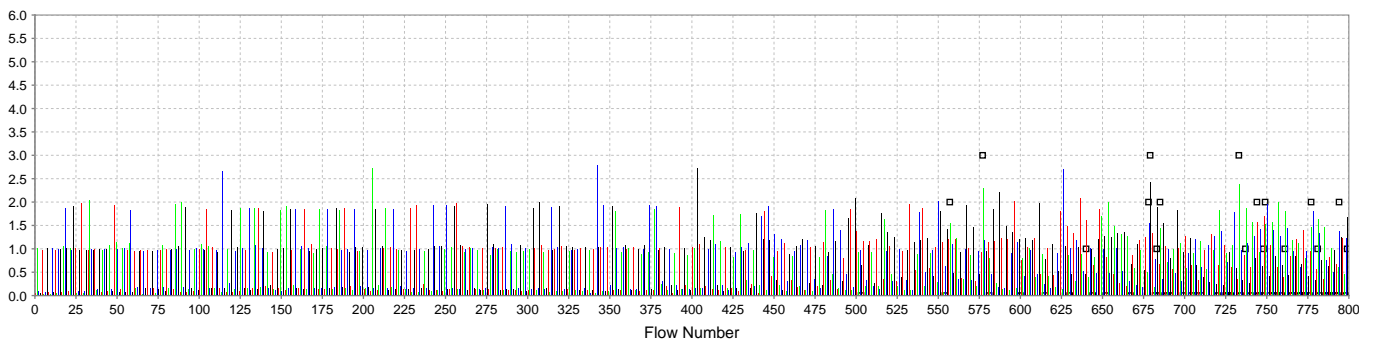
**AVTF90**



**ECTF301**

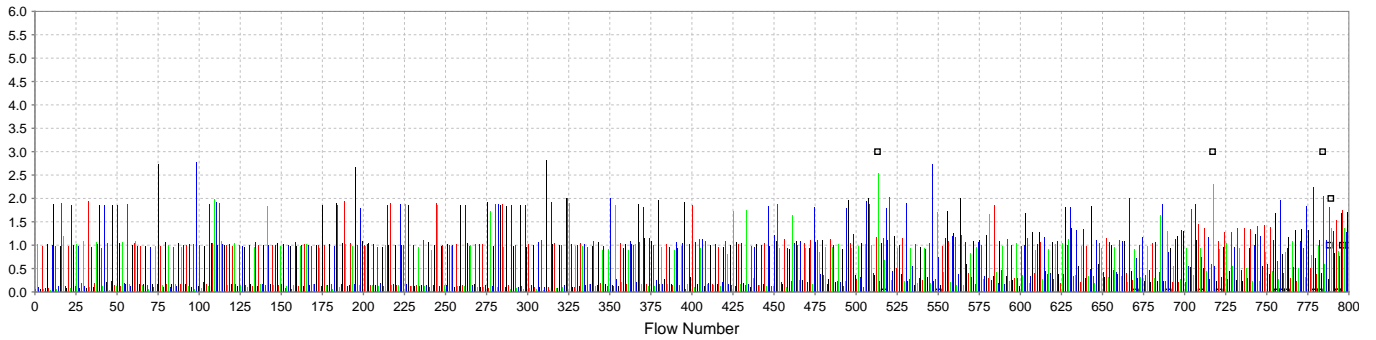


**ECTF302**

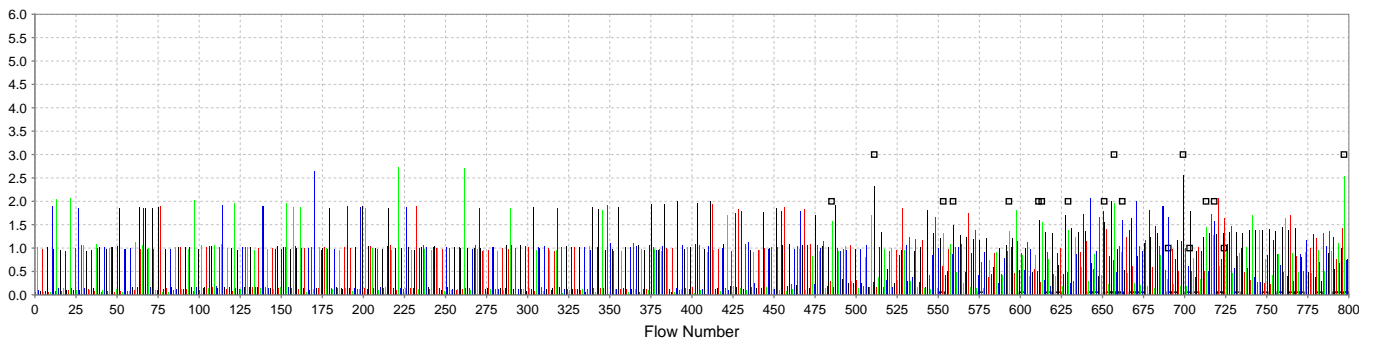




**ECTF303**

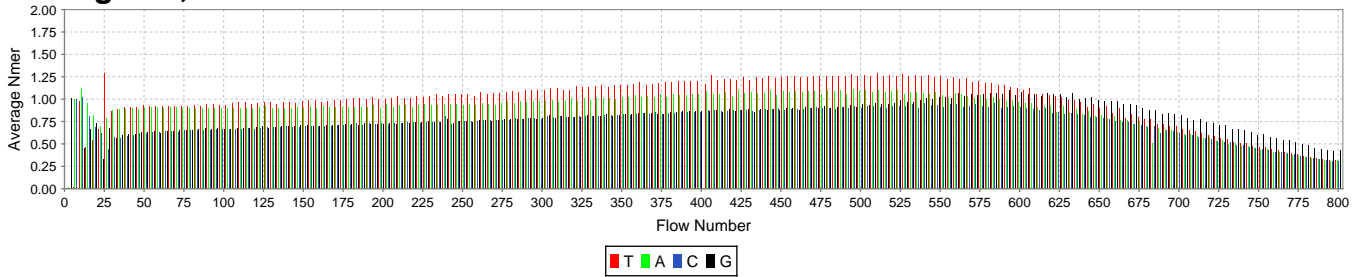


**ECTF304**

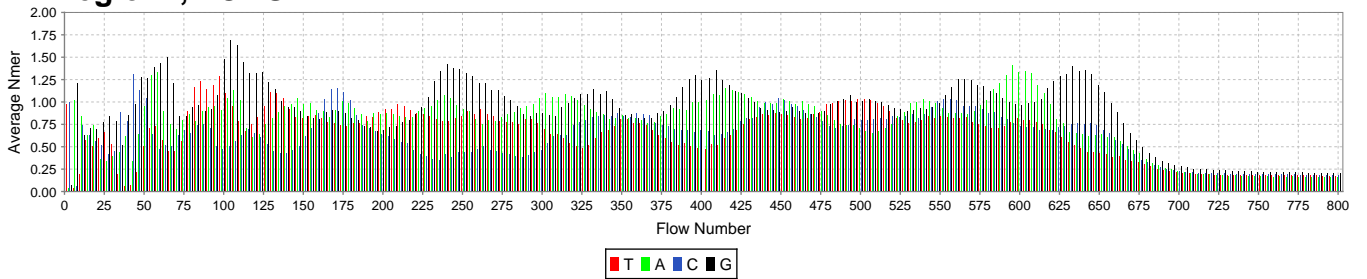


## Library Consensus Flowgrams

**Region1, GACT**

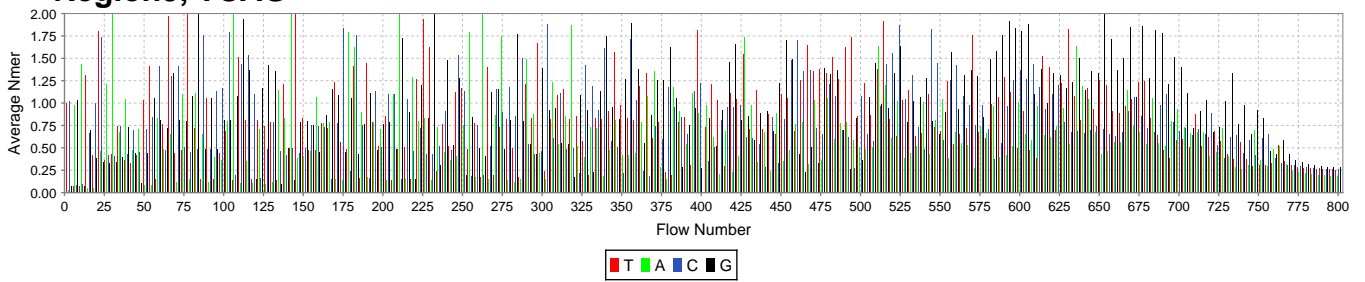


**Region2, TCAG**

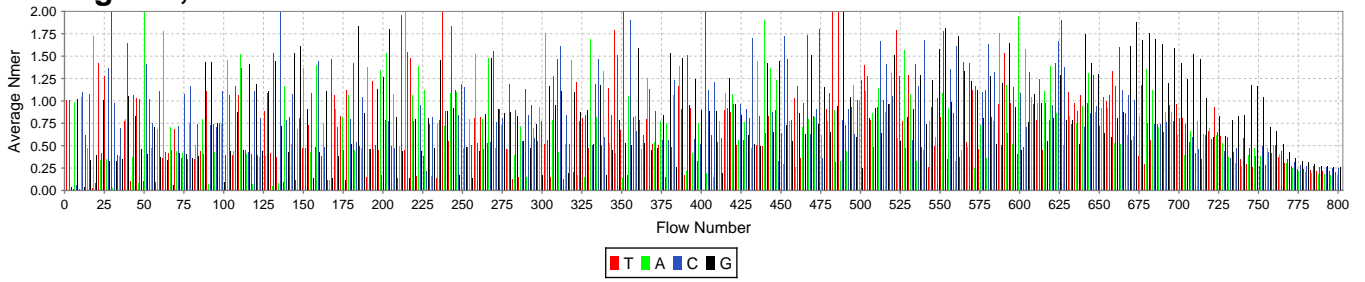




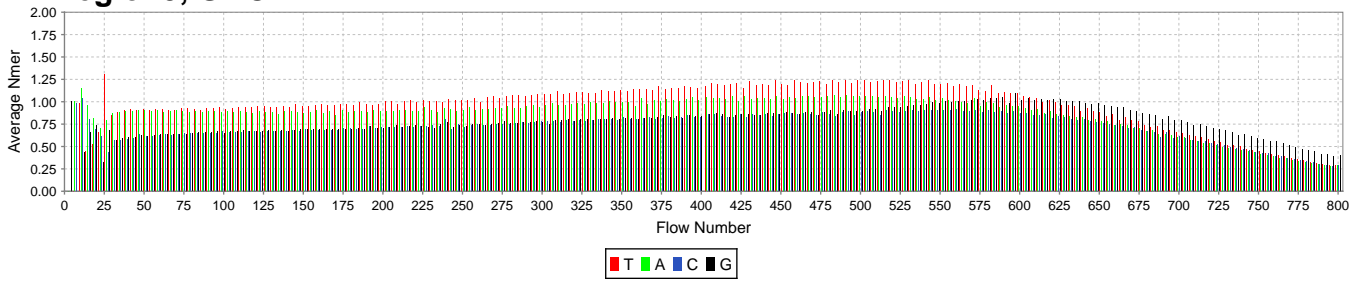
### Region3, TCAG



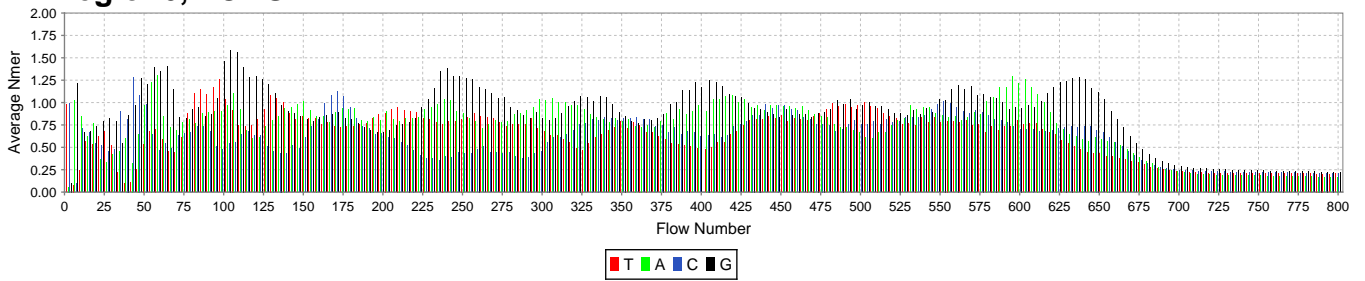
### Region4, TCAG



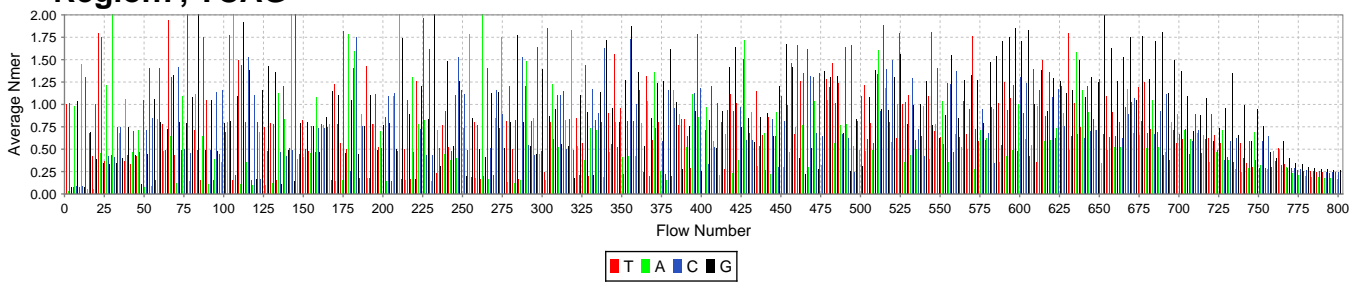
### Region5, GACT



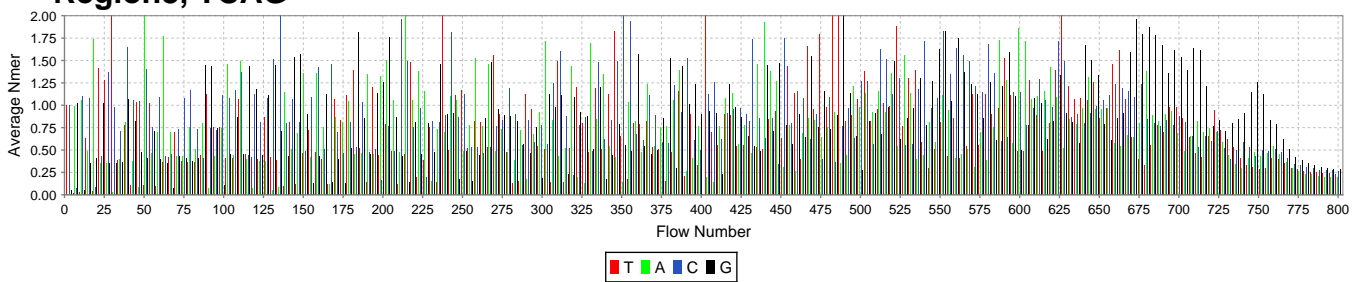
### Region6, TCAG



### Region7, TCAG



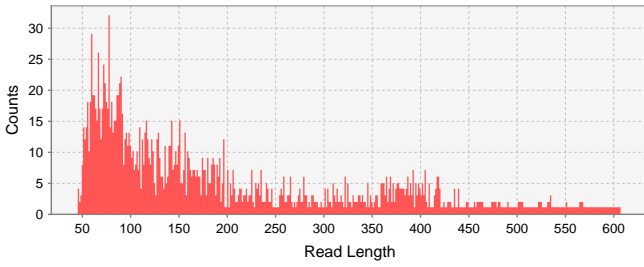
### Region8, TCAG



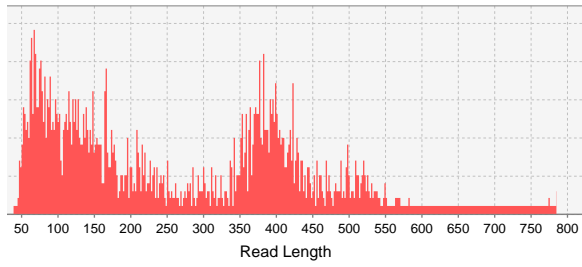


# Read Length Distributions

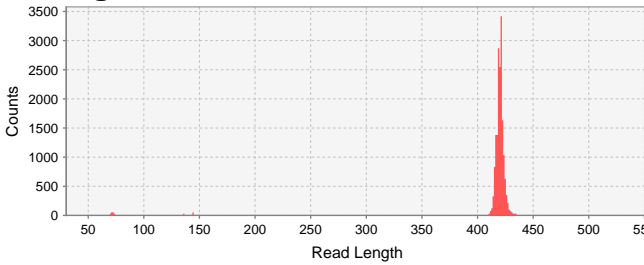
**Region1, GACT**



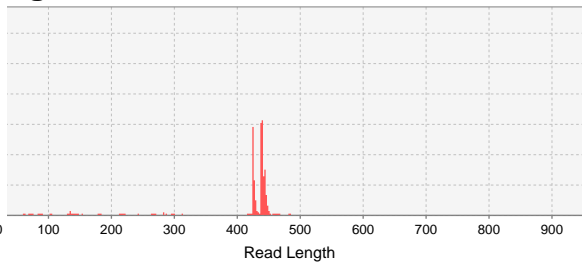
**Region5, GACT**



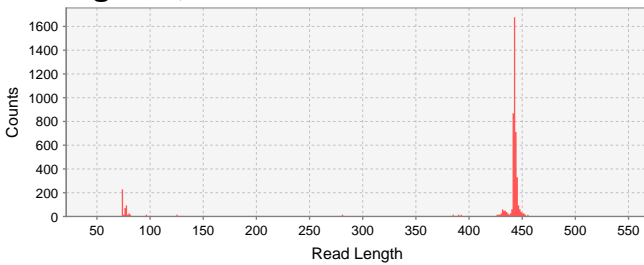
**Region2, TCAG**



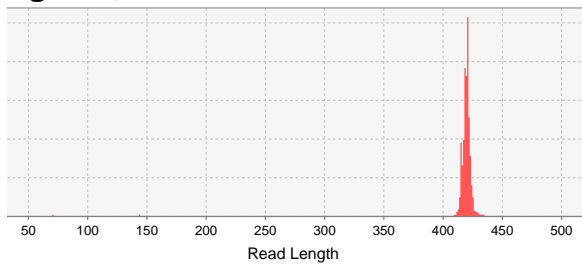
**Region3, TCAG**



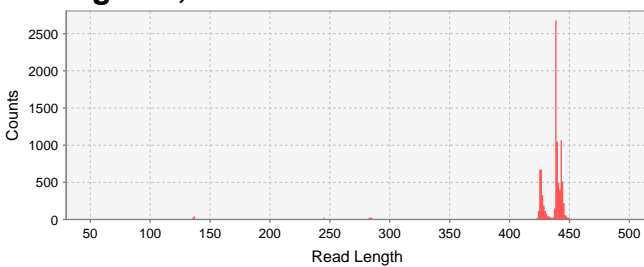
**Region4, TCAG**



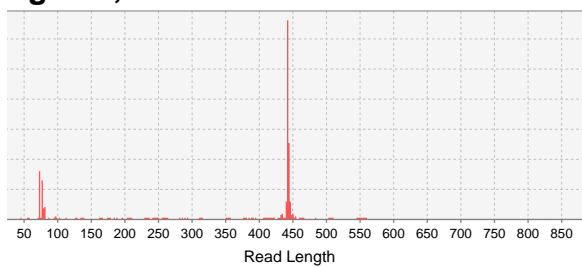
**Region6, TCAG**



**Region7, TCAG**



**Region8, TCAG**



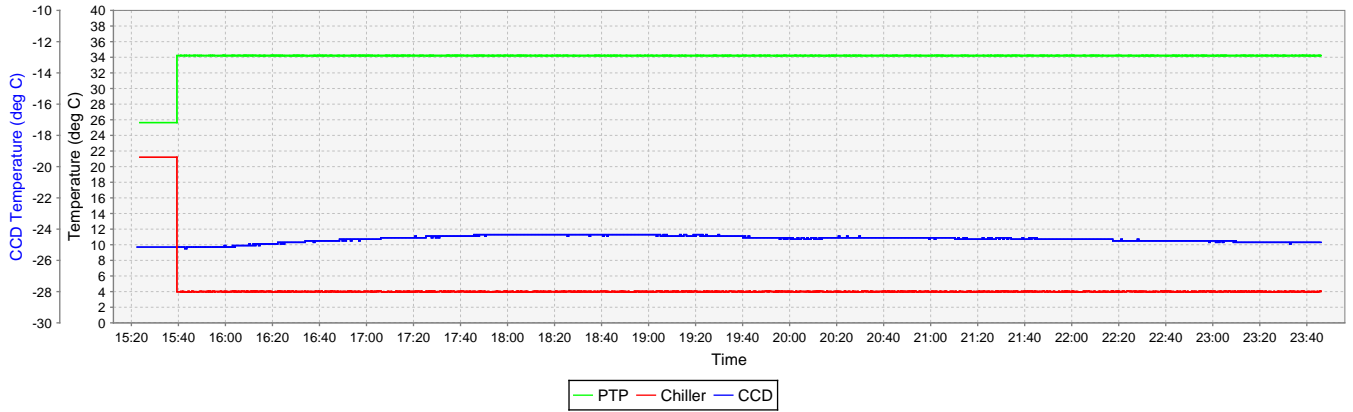


## Library Sequence Composition By Region

Region	Filter Pass Reads	Trimmed Primer		Quality Primer		No Trimming	
		Reads (% Total)	Average Length (bp)	Reads (% Total)	Average Length (bp)	Reads (% Total)	Average Length (bp)
1	2365	500 (21.14 %)	316	1805 (76.32 %)	149	-	-
2	20658	805 (3.90 %)	433	19831 (96.00 %)	420	-	-
3	3458	19 (.55 %)	449	3418 (98.84 %)	429	-	-
4	5351	4 (.07 %)	516	5341 (99.81 %)	408	-	-
5	3600	1332 (37.00 %)	380	2210 (61.39 %)	202	43 (1.19 %)	556
6	27553	1674 (6.08 %)	430	25764 (93.51 %)	421	1 (.00 %)	587
7	10102	36 (.36 %)	435	9850 (97.51 %)	434	-	-
8	3142	2 (.06 %)	772	3132 (99.68 %)	343	-	-



# Rig State



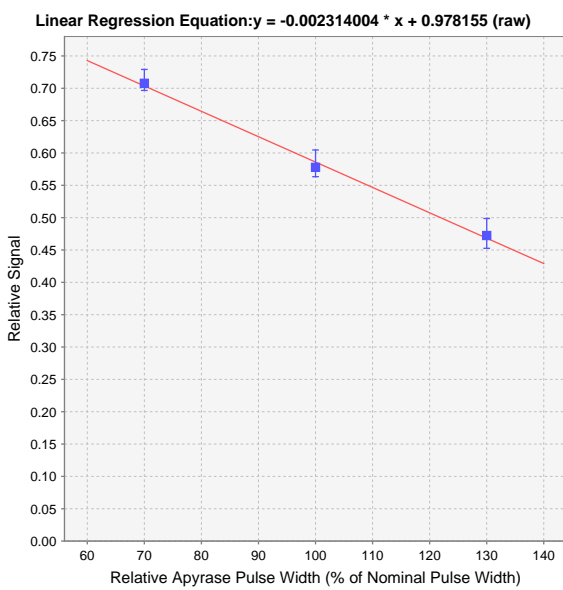
Parameter	Min	Max	Mean
Camera Pressure (Torr)	.92	.92	.92



## Calibration Status

*No calibration information is found*

## Adaptive Apyrase

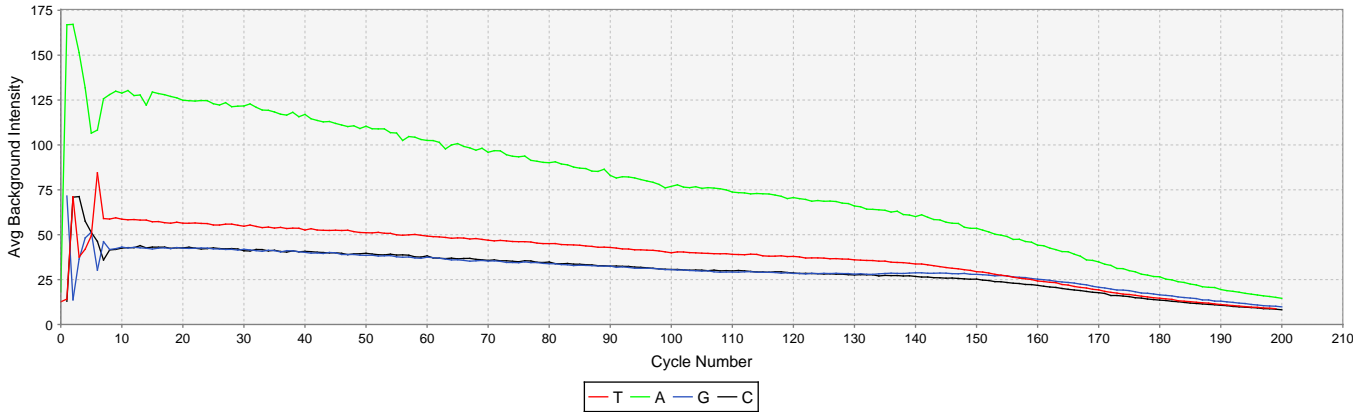


Parameter	Pulse Width in msec	Concentration
Nominal	236.7	1.0X
Calibrated	101.9	0.43 X
Actual	189.0	0.799 X

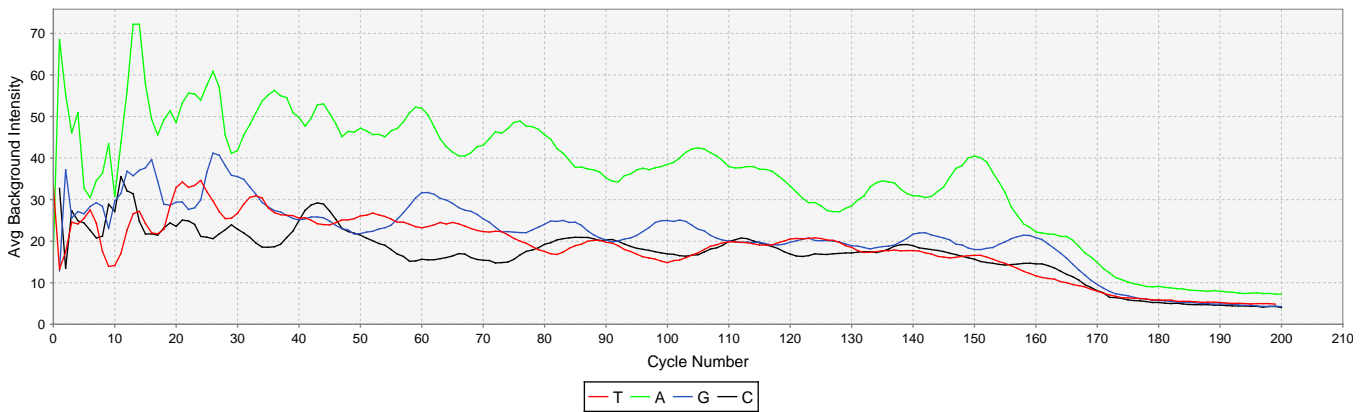


# Background Levels

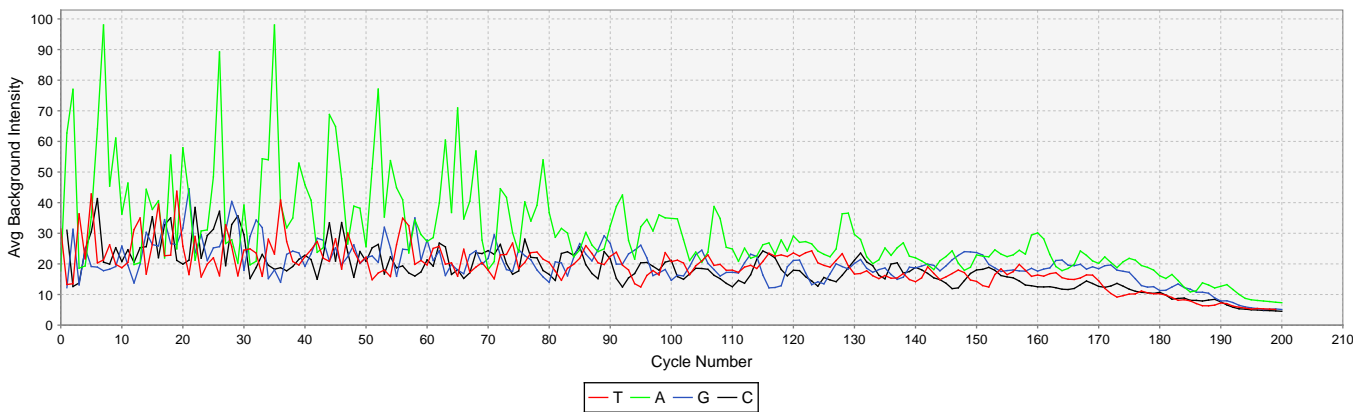
## Region 1



## Region 2

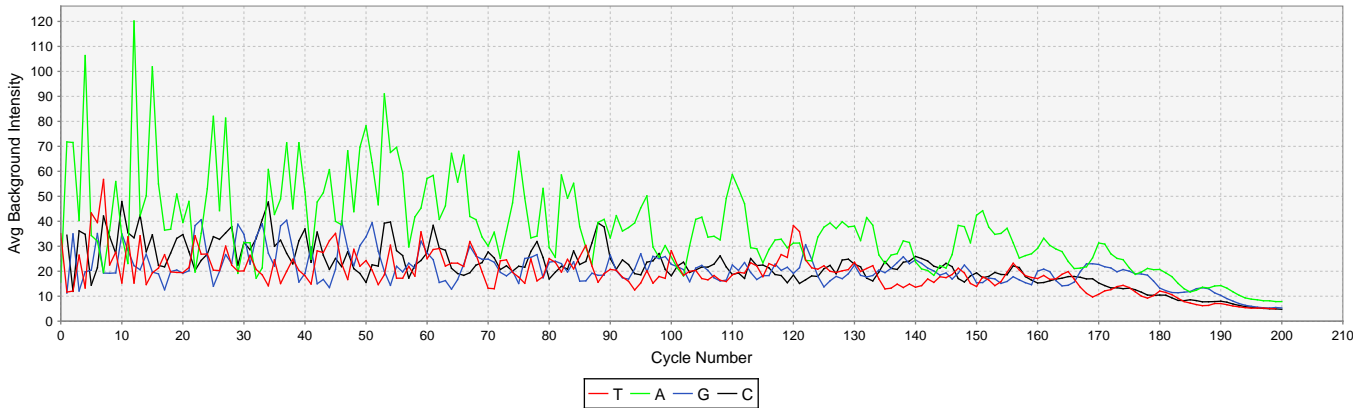


## Region 3

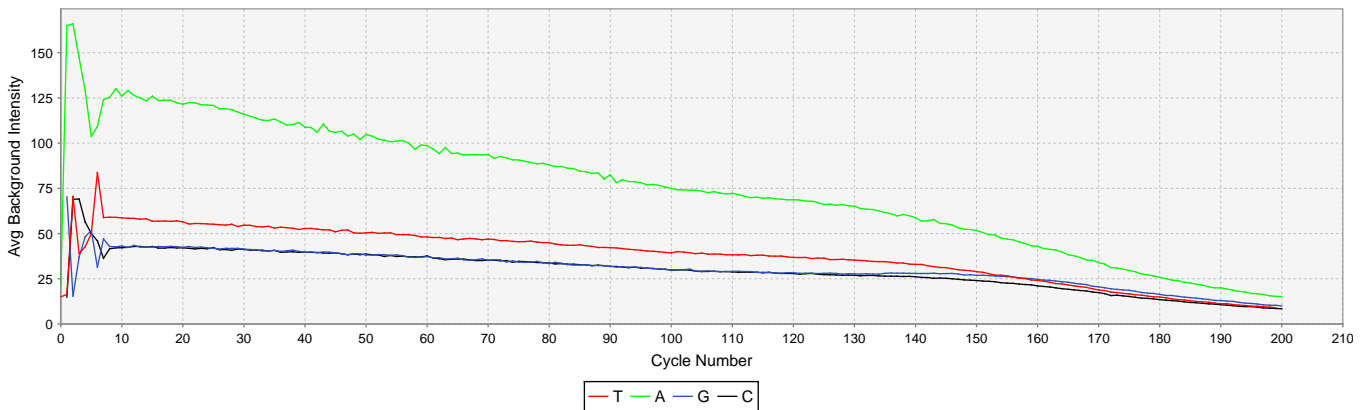




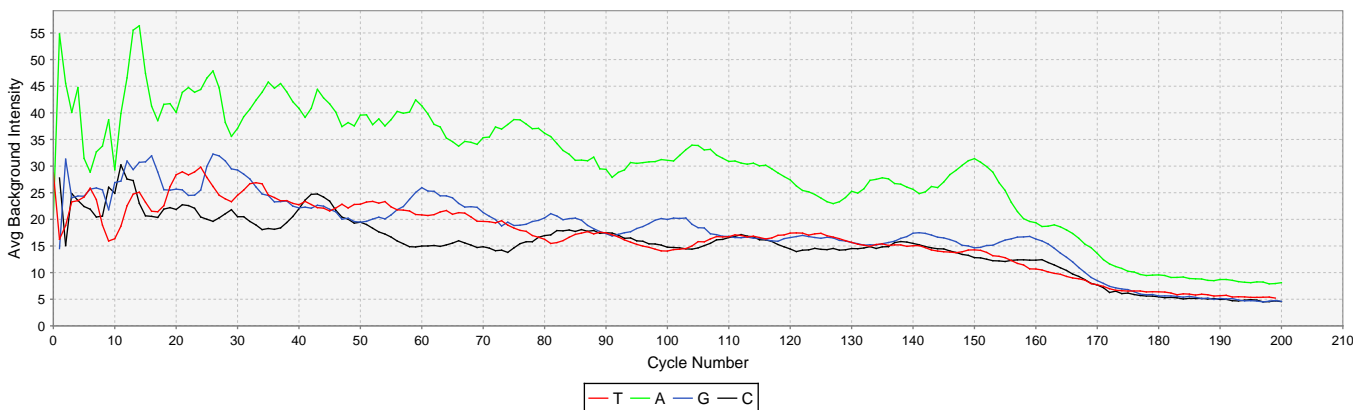
### Region 4



### Region 5

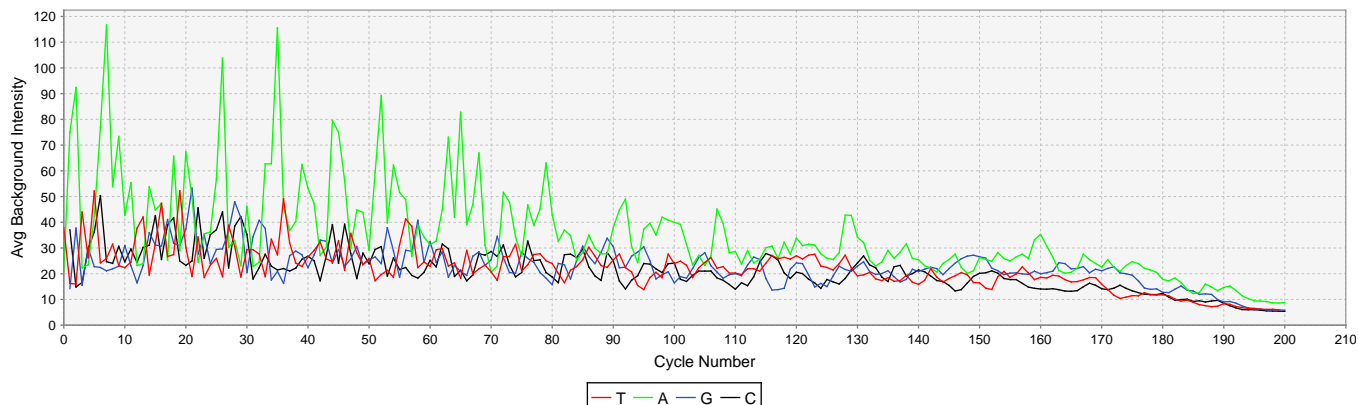


### Region 6

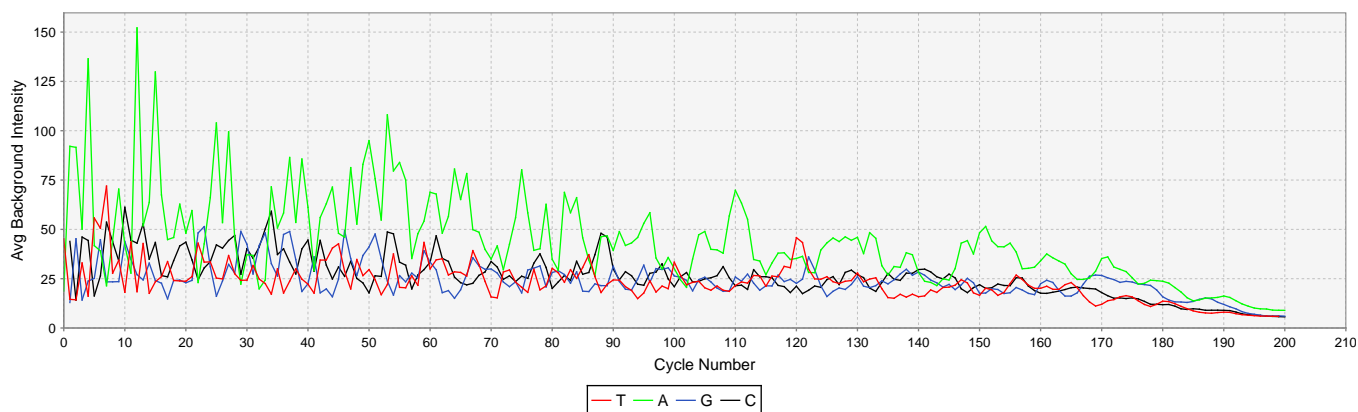




## Region 7



## Region 8



## Background Intensity: Mean Value

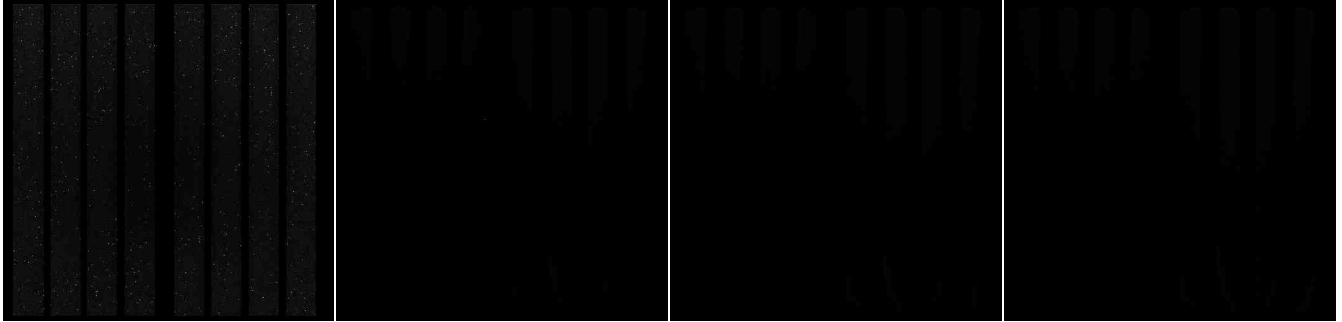
Nucleotide	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8
T	39	18	19	19	38	17	22	23
A	78	36	30	37	76	30	35	44
C	30	17	18	22	30	15	21	26
G	31	21	20	20	31	18	23	24



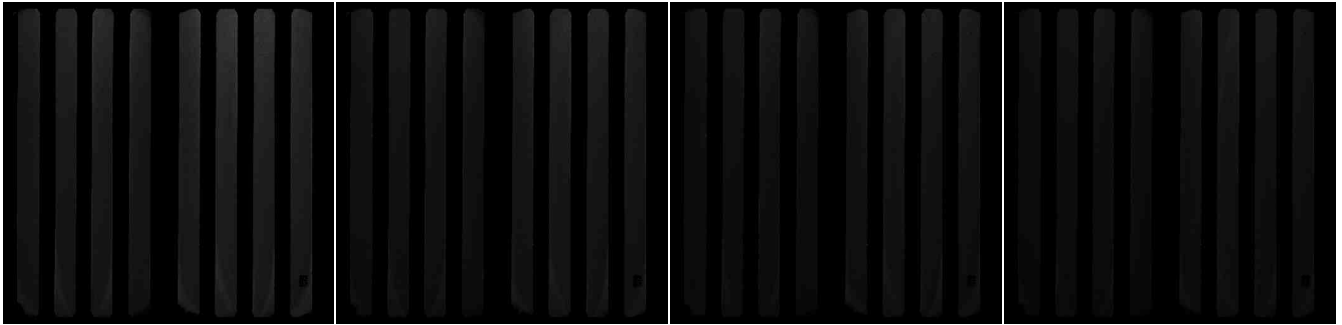
## Background Intensity Values at First Five Cycles

Nucleotide	Flow Number	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8
T	2	13	33	31	35	15	29	38	45
A	3	18	17	18	16	21	21	21	19
C	4	13	33	31	34	15	28	37	44
G	5	72	13	12	11	70	15	14	13
T	6	14	13	13	12	16	16	16	15
A	7	167	69	63	72	165	55	75	92
C	8	71	13	13	12	69	15	15	14
G	9	14	37	31	35	15	31	38	45
T	10	71	17	14	12	71	19	16	14
A	11	167	55	77	72	166	46	92	92
C	12	71	27	14	36	69	25	17	46
G	13	36	26	13	12	37	24	15	14
T	14	38	25	36	26	39	23	44	33
A	15	151	46	19	40	147	40	22	50
C	16	58	25	25	35	56	24	30	44
G	17	48	27	25	20	48	24	30	24
T	18	42	24	22	13	43	24	26	16
A	19	132	51	19	106	129	45	23	136
C	20	51	24	30	14	50	22	36	16
G	21	51	27	19	20	52	24	23	25

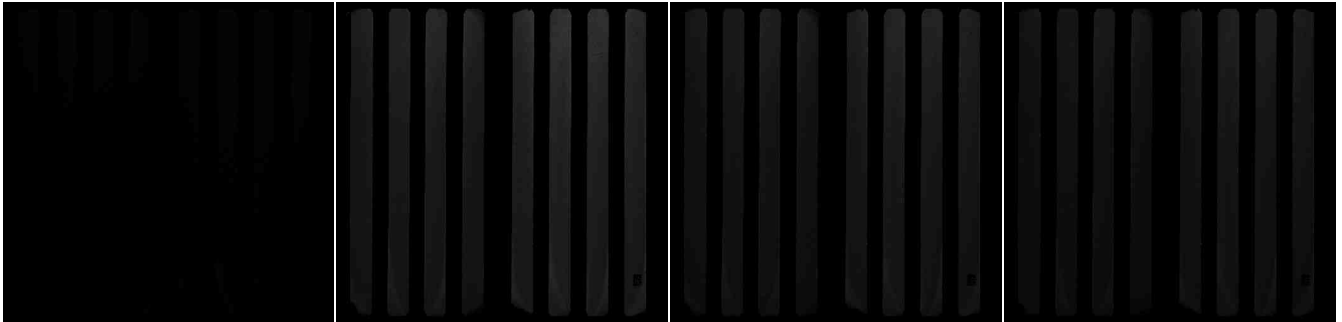
## Raw Images



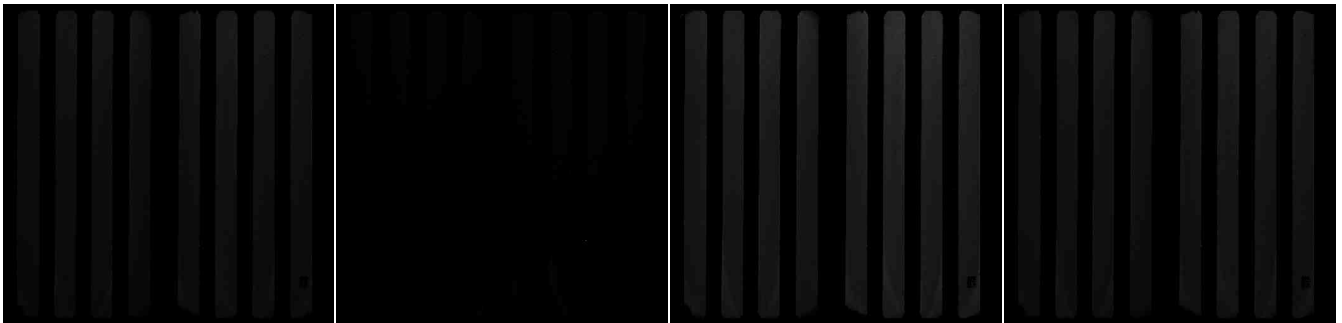
00000: Substrate (--)    00001: Substrate (--)    00002: Substrate (--)    00003: Substrate (--)



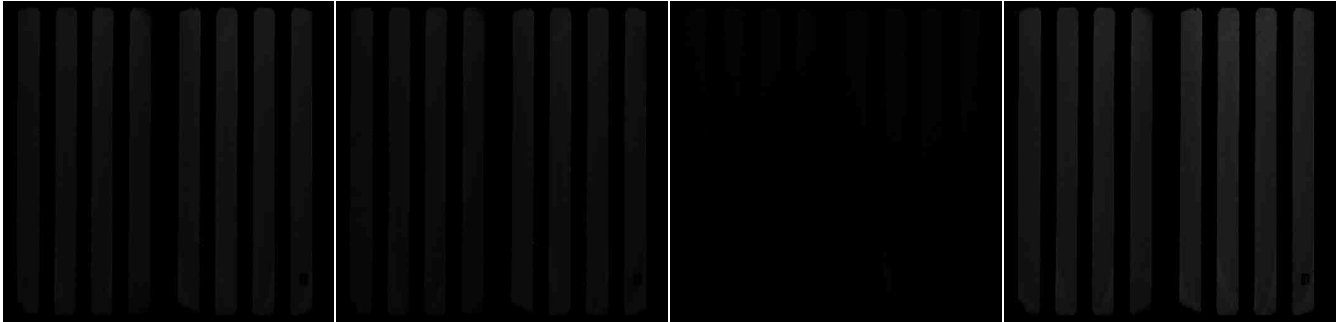
00004: Other (--)    00005: Other (--)    00006: Other (--)    00007: Other (--)



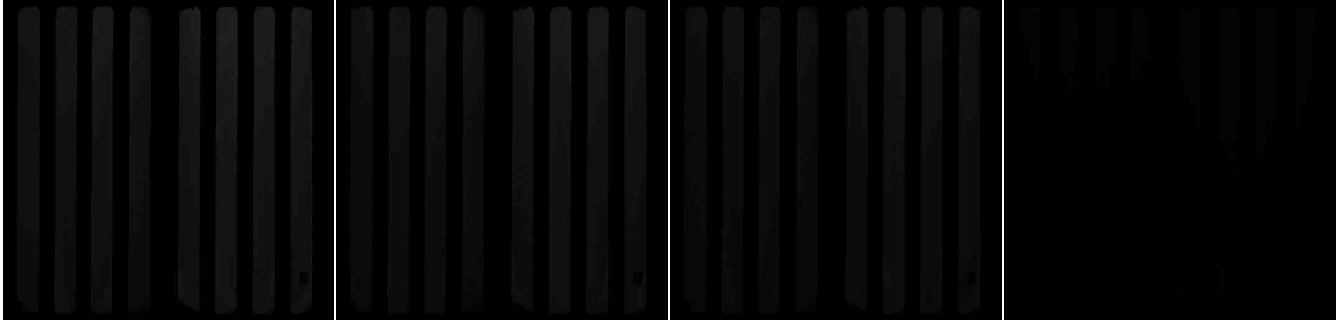
00008: Substrate (--)    00009: Other (--)    00010: Other (--)    00011: Other (--)



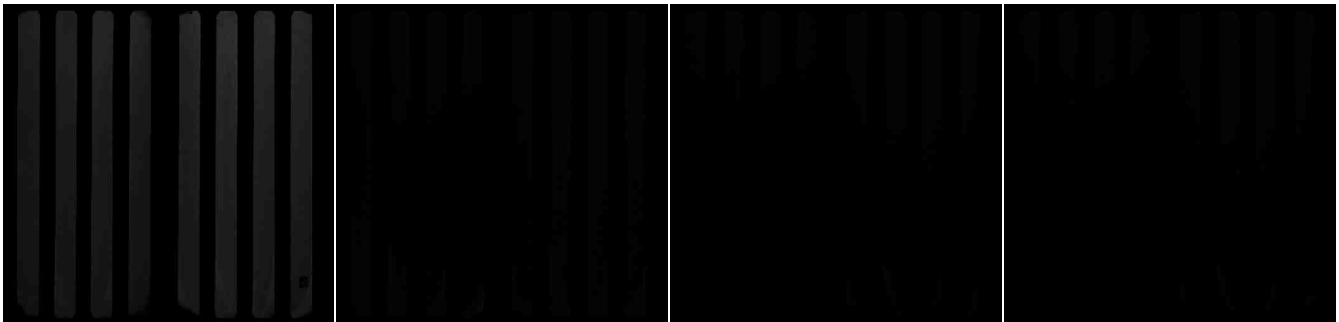
00012: Other (--)    00013: Substrate (--)    00014: Other (--)    00015: Other (--)



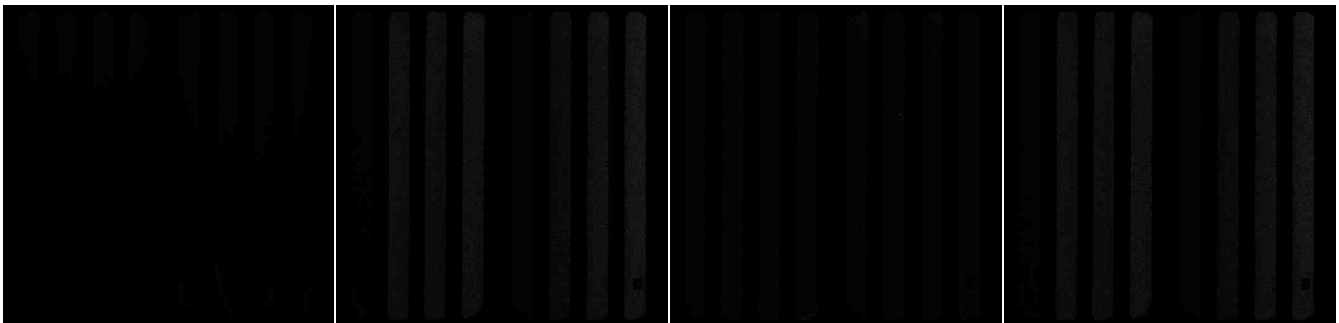
00016: Other (--)      00017: Other (--)      00018: Substrate (--)      00019: Other (--)



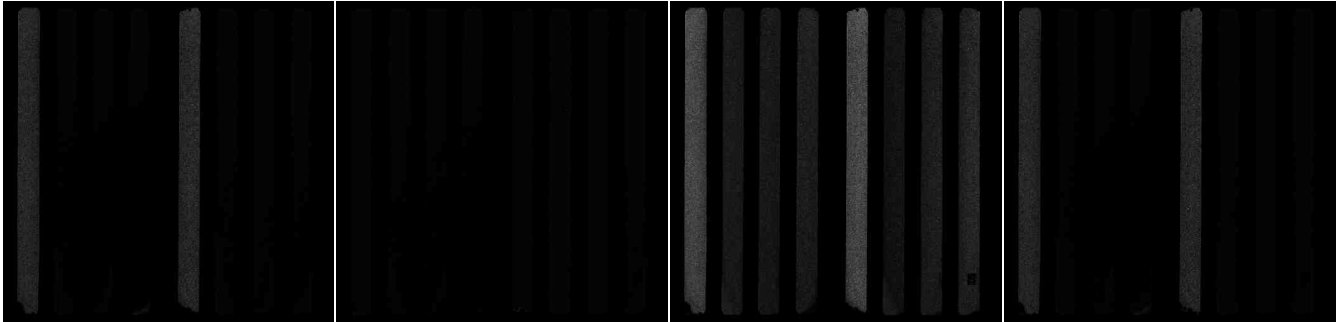
00020: Other (--)      00021: Other (--)      00022: Other (--)      00023: Substrate (--)



00024: Normalization (0)      00025: Substrate (--)  
00026: Substrate (--)  
00027: Substrate (--)



00028: Substrate (--)      00029: T (1)      00030: A (2)      00031: C (3)

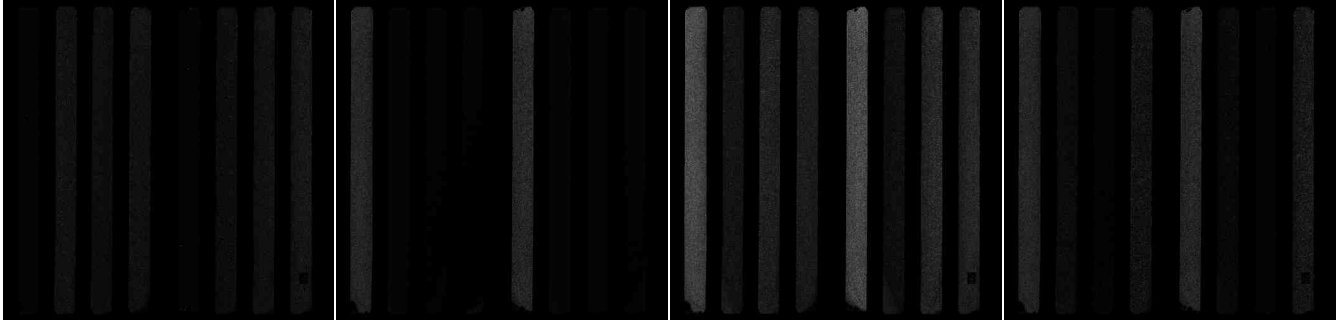


00032: G (4)

00033: T (5)

00034: A (6)

00035: C (7)

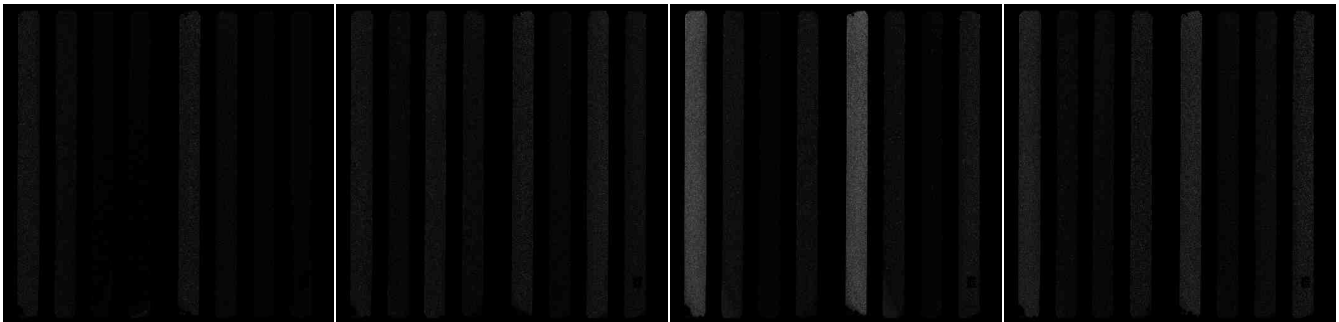


00036: G (8)

00037: T (9)

00038: A (10)

00039: C (11)

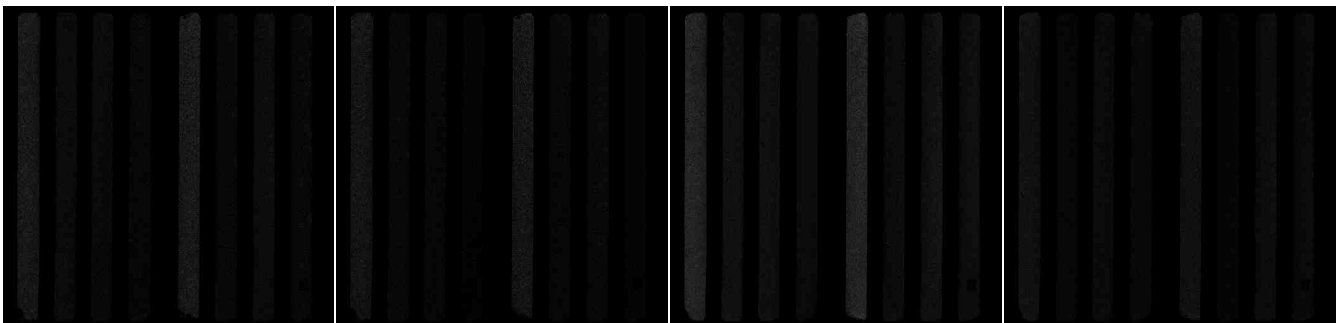


00040: G (12)

00041: T (13)

00042: A (14)

00043: C (15)

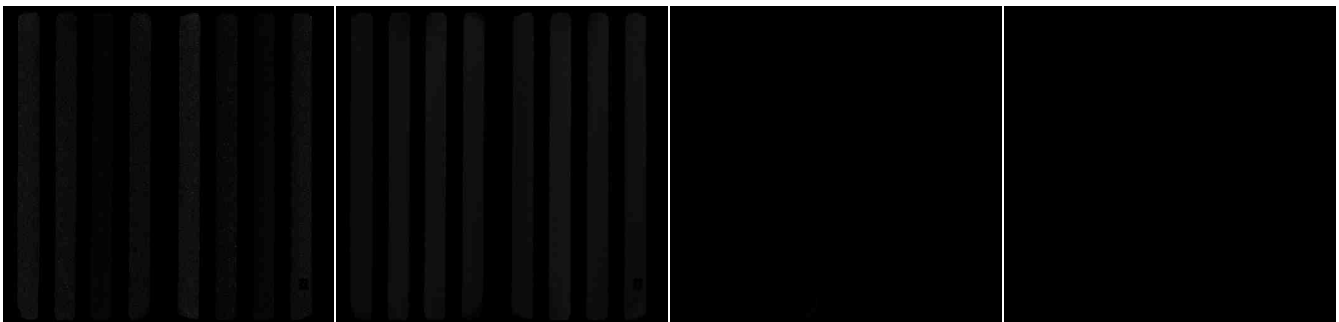


00044: G (16)

00045: T (17)

00426: A (398)

00427: C (399)



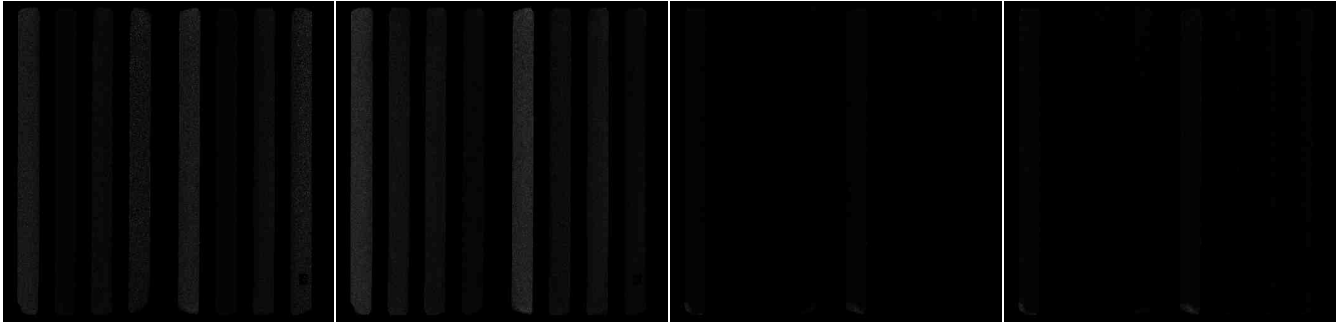


00428: G (400)

00429: Normalization  
(401)

00430: Substrate (--)

00431: Substrate (--)

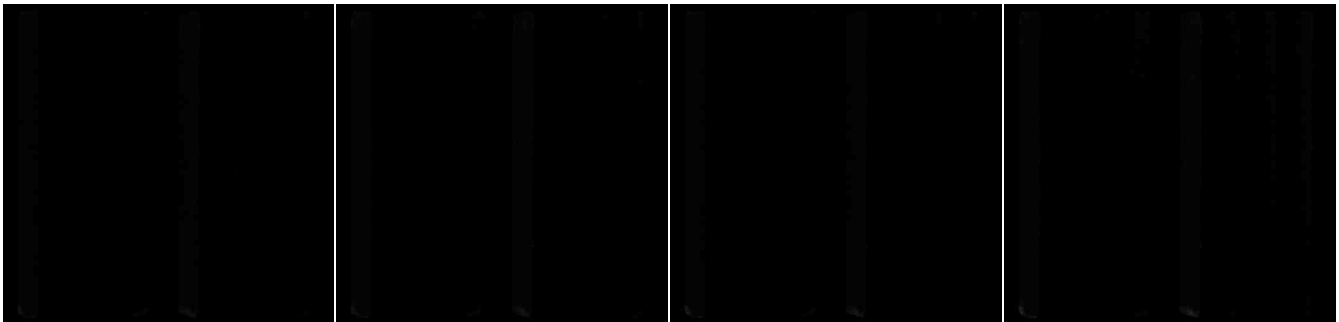


00432: T (402)

00433: A (403)

00824: T (794)

00825: A (795)

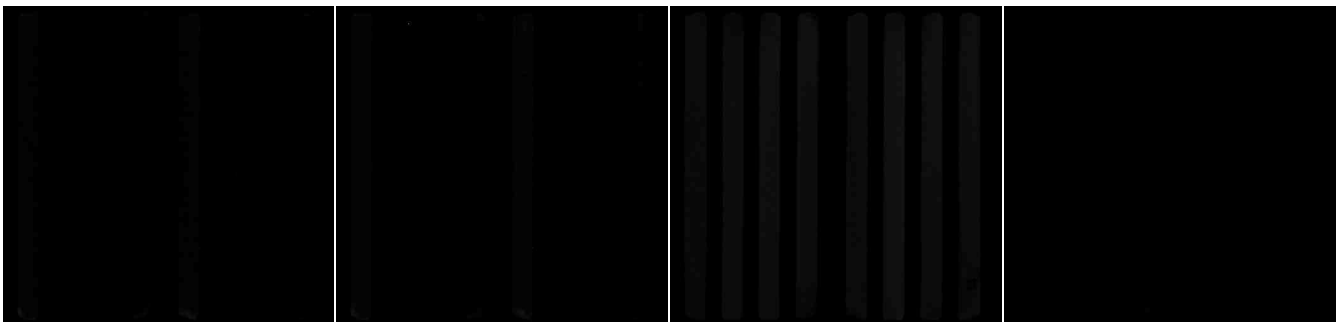


00826: C (796)

00827: G (797)

00828: T (798)

00829: A (799)



00830: C (800)

00831: G (801)

00832: Normalization  
(802)

00833: Substrate (--)

## Details

Report generator v2.6