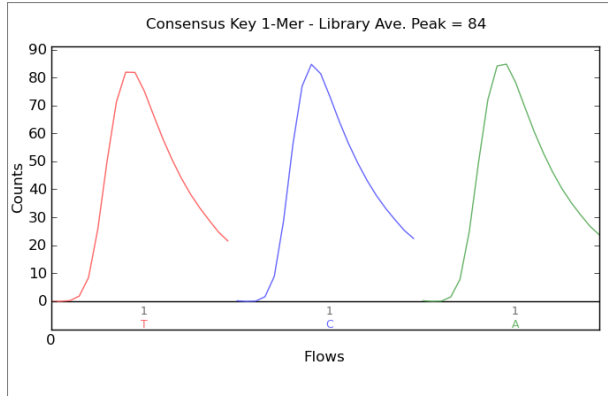
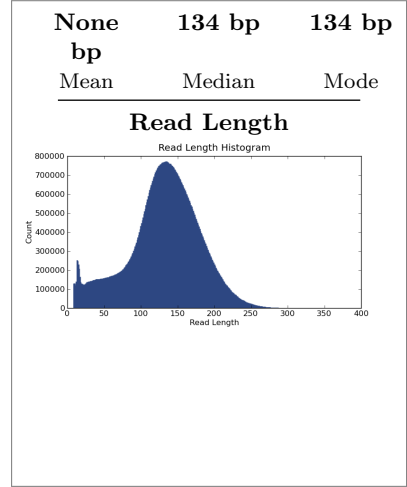
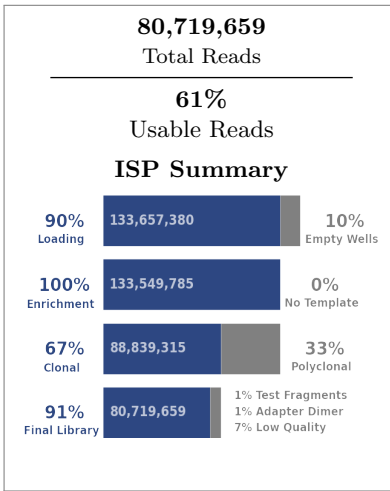
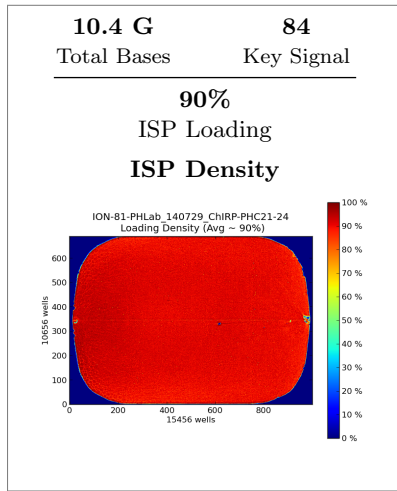


Run Summary



Addressable Wells	148,603,956	
With ISPs	133,657,380	89.9%
Live	133,549,785	99.9%
Test Fragment	1,099,259	00.8%
Library	132,450,526	99.2%

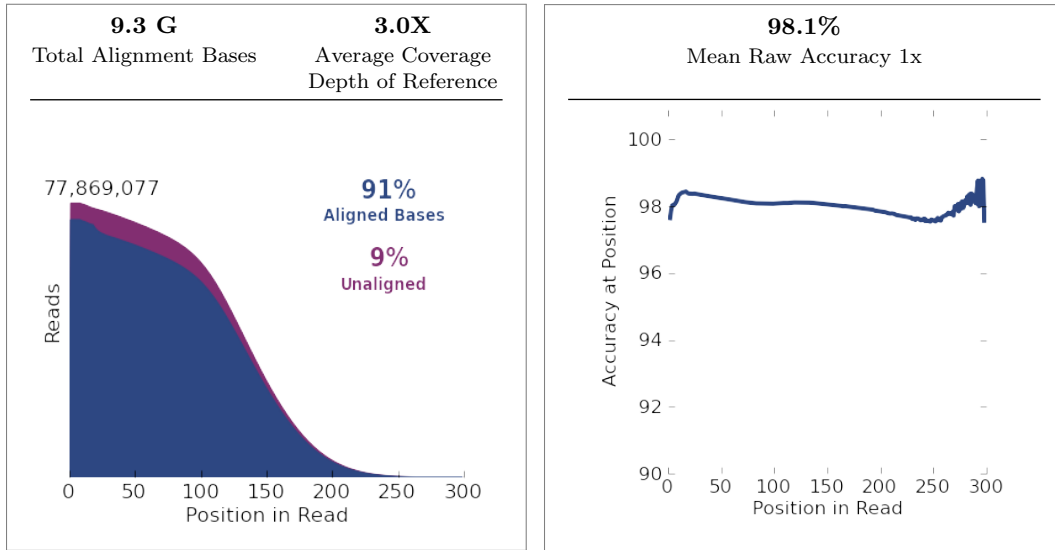
Library ISPs	132,450,526	
Filtered: Polyclonal	44,710,470	33.8%
Filtered: Low Quality	6,066,098	04.6%
Filtered: Primer Dimer	982,553	00.7%
Final Library ISPs	80,719,659	60.9%

Notes: PHlab_4ChIRPsamples_PHC21-odd-bc11_PHC22-even-bc12_PCH23-LacZ1-bc13_PHC24-LacZ2-bc14

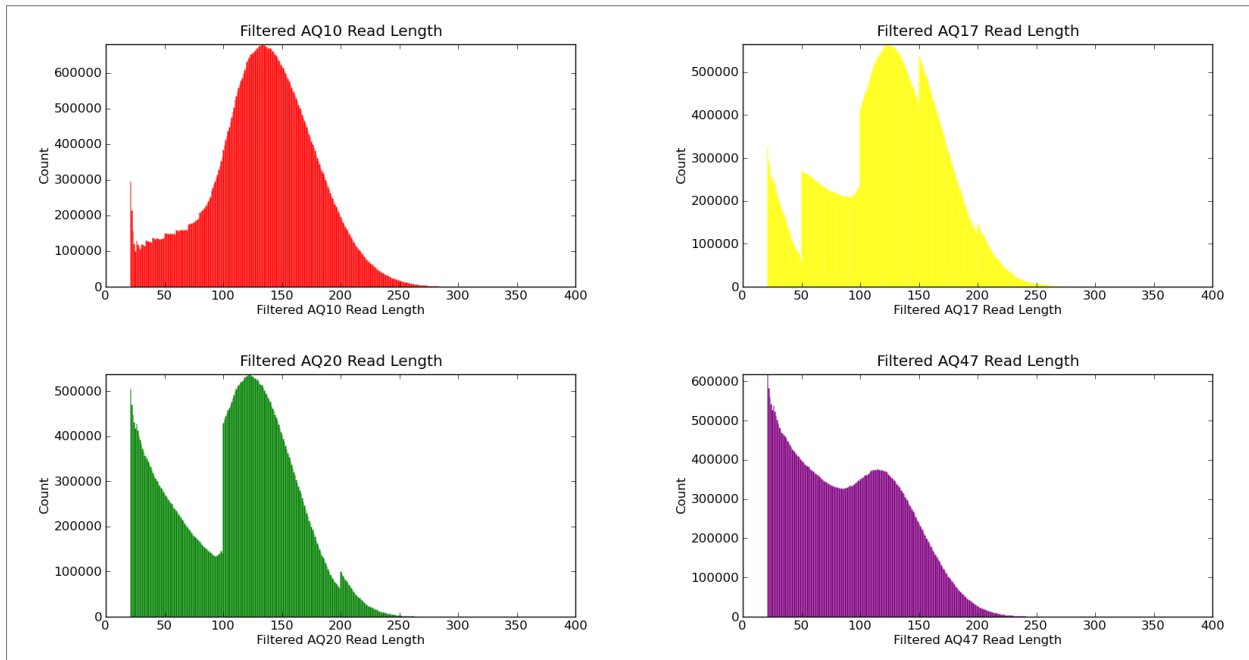
Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length
No barcode	none	291,130,279	207,716,718	2,815,096	103 bp
IonXpress_011	PHC21_odd	2,609,950,178	2,113,018,271	20,547,846	127 bp
IonXpress_012	PHC22_even	2,479,947,543	2,001,102,005	18,743,738	132 bp
IonXpress_013	PHC23_LacZ1	2,454,437,639	1,979,857,197	18,435,174	133 bp
IonXpress_014	PHC24_LacZ2	2,654,790,473	2,132,674,555	20,142,319	131 bp

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	906,893	74%	

Alignment Summary *(aligned to Homo sapiens)*



	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	7.5 G	6.2 G	4.8 G
Mean Length [bp]	123	109	89
Longest Alignment [bp]	330	314	295
Mean Coverage Depth	2.4	2.0	1.6



Analysis Details

Run Name	R_2014.07.29_12.32.46_user_ION-81-PHLab_140729_ChIRP-PHC21-24
Run Date	July 29, 2014, 12:34 p.m.
Run Flows	520
Projects	PHLab_ChIRP
Sample	PHC22_even, PHC21_odd, PHC24_LacZ2, PHC23_LacZ1
Reference	
PGM	IONAS
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Barcode Set	IonXpress
Analysis Name	Auto_user_ION-81-PHLab_140729_ChIRP-PHC21-24_116
Analysis Date	July 29, 2014, 8:50 p.m.
Analysis Flows	0
runID	5QFL5

Software Version

Torrent_Suite	4.2
host	FW7DQV1
ion-analysis	4.2.14-1
ion-chefupdates	4.2.0
ion-dbreports	4.2.17-1
ion-gpu	4.2.1-1
ion-pipeline	4.2.8-1
ion-plugins	4.2.23-1
ion-protonupdates	4.2.0
ion-torrentr	4.2.1-1
LiveView	1835
DataCollect	2927
OIA	4201
OS	21
Graphics	34