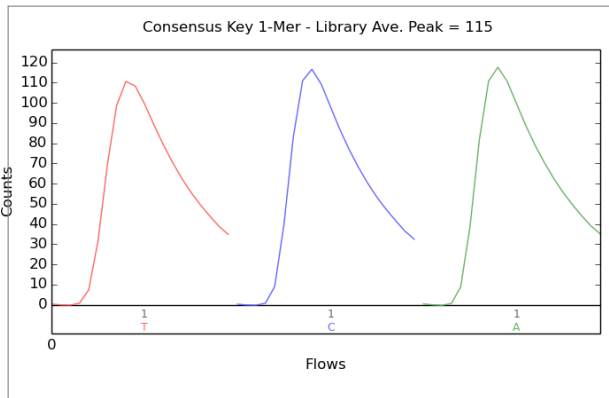
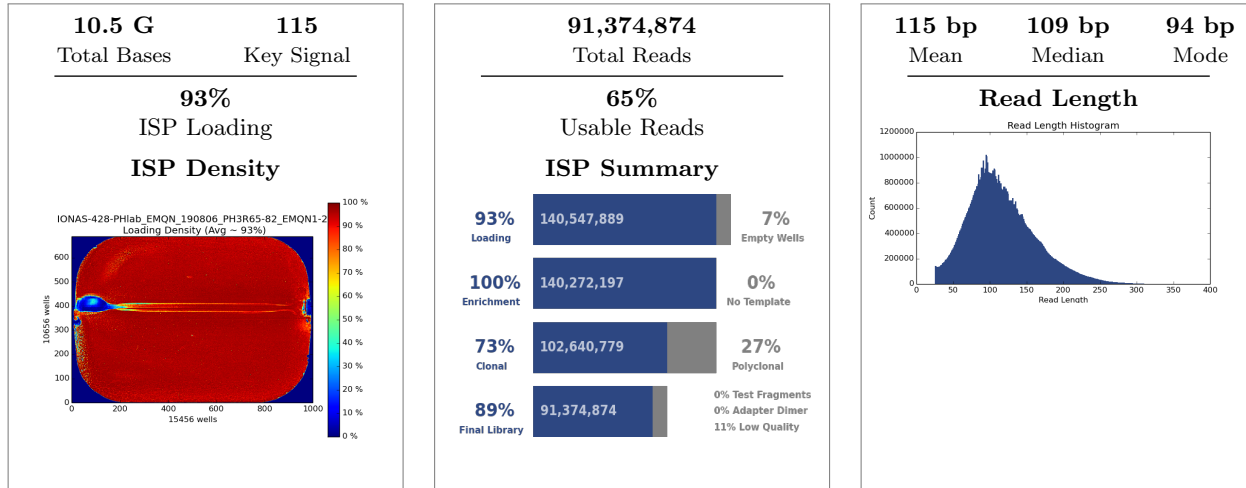


Run Summary



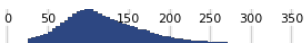
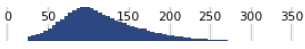
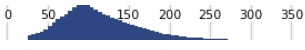
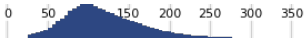
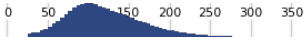


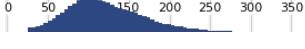
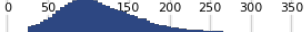
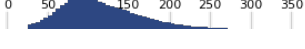
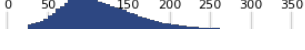

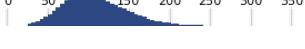


Addressable Wells		151,539,288
With ISPs	140,547,889	92.7%
Live	140,272,197	99.8%
Test Fragment	526,976	00.4%
Library	139,745,221	99.6%


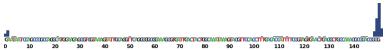
Library ISPs		139,745,221
Filtered: Polyclonal	37,631,418	26.9%
Filtered: Low Quality	10,621,472	07.6%
Filtered: Adapter Dimer	117,457	00.1%
Final Library ISPs	91,374,874	65.4%

Notes: PHlab-VZ-18RNAs_EMQN-2of10-AmplColonLungV2

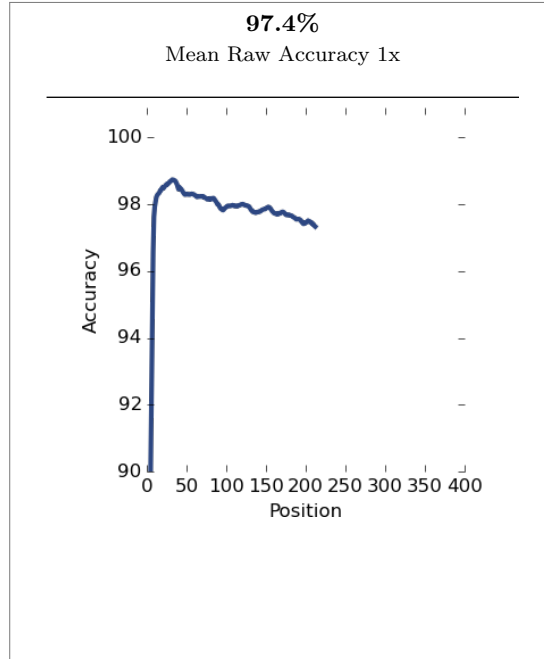
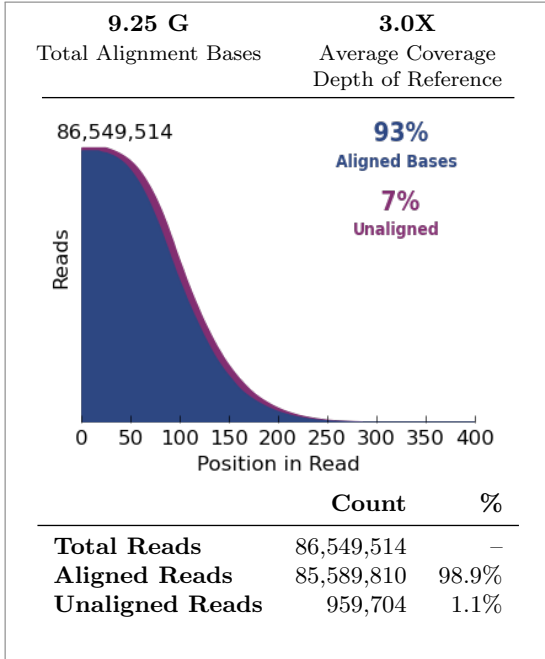
Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length	Read Length Histogram
No barcode	none	530,752,438	392,313,879	4,700,682	112 bp	
IonXpress_001	EMQN-CLv2.ID1	161,229,843	140,524,088	1,610,774	100 bp	
IonXpress_002	EMQN-CLv2.ID2	248,127,577	216,254,607	2,199,075	112 bp	
IonXpress_004	none	9,791,955	7,760,019	87,565	111 bp	
IonXpress_005	PH3R65_HT29-563,384,562 scr2-1	446,385,260	446,385,260	4,898,776	115 bp	
IonXpress_006	PH3R66_HT29-444,466,240 scr2-2	350,823,947	350,823,947	3,847,733	115 bp	
IonXpress_007	PH3R67_HT29-571,601,642 scr2-3	450,689,568	450,689,568	5,004,787	114 bp	

Run Report for Auto_user_IONAS-428-PHlab_EMQN_190806_PH3R65-82_EMQN1-2_593

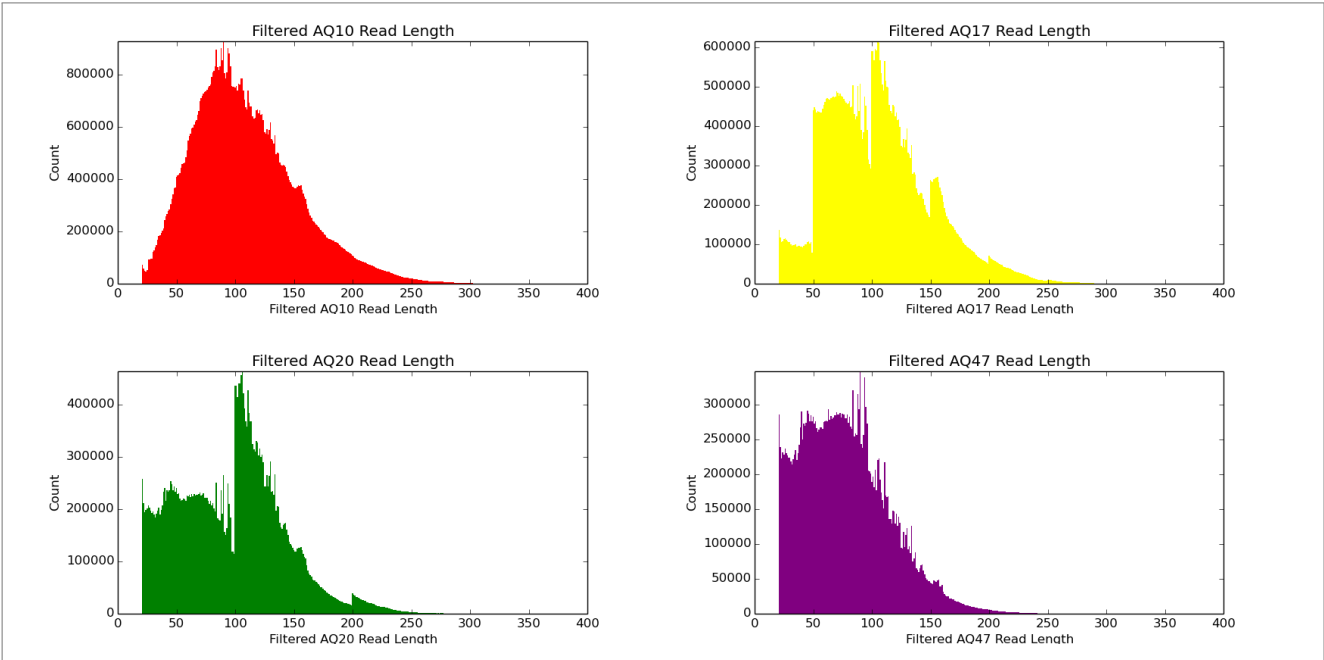
IonXpress_008	PH3R68_HT29-549,955,999 sh2-1	431,969,654	4,728,184	116 bp	
IonXpress_009	PH3R69_HT29-359,445,890 sh2-2	284,134,313	3,147,027	114 bp	
IonXpress_010	PH3R70_HT29-626,735,878 sh2-3	492,987,111	5,560,175	112 bp	
IonXpress_011	PH3R71_Pa17- 670,167,743 con1	528,162,965	5,724,075	117 bp	
IonXpress_012	PH3R72_Pa17- 526,360,179 con2	417,301,987	4,394,146	119 bp	
IonXpress_013	PH3R73_Pa17- 598,347,072 con3	468,505,687	4,837,059	123 bp	
IonXpress_014	PH3R74_Pa17- 445,808,656 dox1	350,006,996	3,642,627	122 bp	
IonXpress_015	PH3R75_Pa17- 586,768,270 dox2	460,455,732	4,888,919	120 bp	
IonXpress_016	PH3R76_Pa17- 673,210,396 dox3	529,450,349	6,015,014	111 bp	
IonXpress_017	PH3R77_Pb19- 657,506,795 con1	517,719,354	5,762,182	114 bp	
IonXpress_018	PH3R78_Pb19- 397,268,900 con2	309,255,422	3,529,931	112 bp	
IonXpress_019	PH3R79_Pb19- 460,424,535 con3	363,827,296	3,847,315	119 bp	
IonXpress_020	PH3R80_Pb19- 330,487,301 dox1	264,878,126	3,078,831	107 bp	
IonXpress_021	PH3R81_Pb19- 614,277,431 dox2	485,420,463	5,448,966	112 bp	
IonXpress_022	PH3R82_Pb19- 499,521,182 dox3	391,494,952	4,296,353	116 bp	

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_C	216,239	91	
TF_1	264,046	86	

Alignment Summary *(aligned to Homo sapiens)*



	Alignment Quality		
	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	5.63 G	3.37 G	2.2 G
Mean Length [bp]	105	96	78
Longest Alignment [bp]	338	337	311
Mean Coverage Depth	1.8	1.1	0.7



Analysis Details

Run Name	R_2019_08_06_13_25_32_user_IONAS-428-PHlab_EMQN_190806_PH3R65-82_EMQN1-2
Run Date	Aug. 6, 2019, 1:27 p.m.
Run Flows	520
Projects	EMQN_Ampl_ColonLungV2 , PHLab_3RNAseq
Sample	PH3R76_Pa17-dox3, PH3R70_HT29-sh2-3, PH3R77_Pb19-con1, PH3R68_HT29-sh2-1, PH3R80_Pb19-dox1, PH3R78_Pb19-con2, EMQN-CLv2_ID1, PH3R72_Pa17-con2, PH3R75_Pa17-dox2, EMQN-CLv2_ID2, PH3R67_HT29-scr2-3, PH3R74_Pa17-dox1, PH3R71_Pa17-con1, PH3R79_Pb19-con3, PH3R66_HT29-scr2-2, PH3R81_Pb19-dox2, PH3R82_Pb19-dox3, PH3R65_HT29-scr2-1, PH3R69_HT29-sh2-2, PH3R73_Pa17-con3
Reference	
Instrument	IONAS
Operation Mode	Service mode
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip Barcode	
Chip Check	Passed
Chip Type	P1.1.17
Chip Data	tiled
Chip Lot Number	QPW140
Chip Wafer	25
Barcode Set	IonXpress
Analysis Name	Auto_user_IONAS-428-PHlab_EMQN_190806_PH3R65-82_EMQN1-2_593
Analysis Date	Aug. 7, 2019, 12:04 a.m.
Analysis Flows	0
runID	1HWTO
BeadFind Args	justBeadFind -args-json /opt/ion/config/args_P1.1.17_beadfind.json
Analysis Args	Analysis -args-json /opt/ion/config/args_P1.1.17_analysis.json
Pre-BaseCaller	BaseCaller -barcode-filter 0.01 -barcode-filter-minreads 10 -phasing-residual-filter=2.0 -max-phasing-levels 2
Calibration Args	Calibration
BaseCaller Args	BaseCaller -barcode-filter 0.01 -barcode-filter-minreads 10 -phasing-residual-filter=2.0 -max-phasing-levels 2 -num-unfiltered 1000 -barcode-filter-postpone 1
Alignment Args	tmap mapall ... stage1 map4
IonStats Args	ionstats alignment
Analysis Parameters	default

Chef Summary

Ion Chef was not used for this run |

Software Version

Torrent_Suite	5.6.0
host	FW7DQV1
ion-analysis	5.6.8-1
ion-chefupdates	5.6.0
ion-dbreports	5.6.37-1
ion-gpu	5.6.0-1
ion-pipeline	5.6.12-1
ion-plugins	5.6.16-1
ion-protonupdates	5.6.0
ion-s5updates	5.6.0
ion-torrentpy	5.6.8-1
ion-torrentr	5.6.8-1
Script	2.1.42
LiveView	2334
DataCollect	3536
OIA	5603
OS	33
Graphics	89