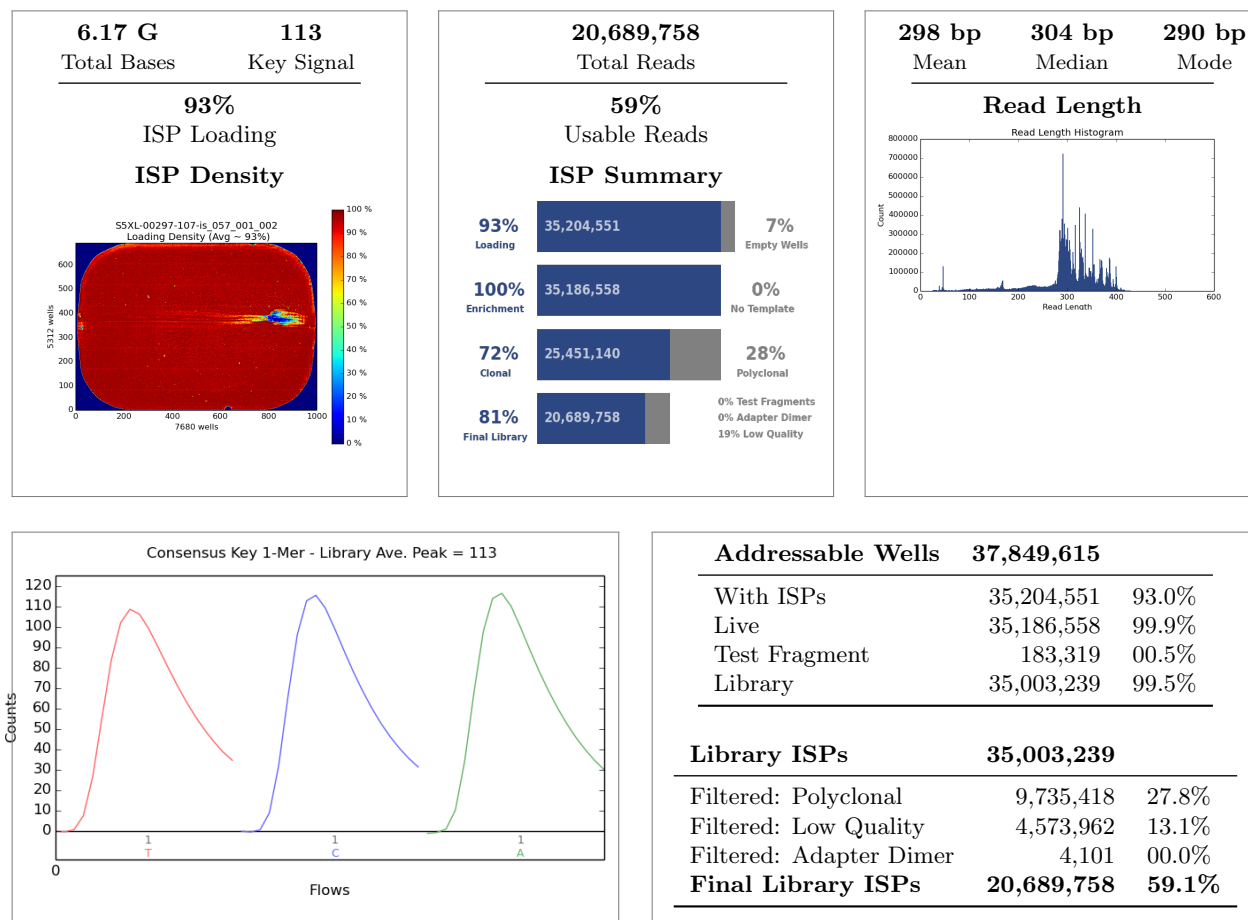


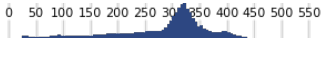

























Run Summary




























Barcode Name	Sample	Bases	$\geq Q20$	Reads	Mean Read Length	Read Length Histogram
No barcode	none	178,202,758	158,061,385	608,463	292 bp	
IonXpress_001	none	96,576,442	87,180,555	321,855	300 bp	
IonXpress_003	none	90,074,343	81,659,948	303,361	296 bp	
IonXpress_004	none	67,244,394	60,803,961	232,827	288 bp	
IonXpress_005	none	54,197,538	49,353,613	174,078	311 bp	
IonXpress_007	none	91,777,560	83,682,141	317,628	288 bp	
IonXpress_008	none	46,852,347	39,155,064	187,956	249 bp	
IonXpress_009	none	167,814,753	152,434,608	552,279	303 bp	

Run Report for Auto_user_S5XL-00297-107-is_057_001_002_292

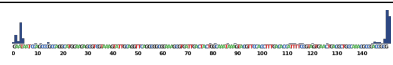
IonXpress.012	none	120,756,423	109,852,729	403,057	299 bp	
IonXpress.015	none	181,274,477	160,811,175	570,735	317 bp	
IonXpress.016	is_057_001	83,775,732	72,656,984	291,295	287 bp	
IonXpress.017	none	130,861,933	119,861,375	409,339	319 bp	
IonXpress.018	is_057_002	113,832,098	98,929,009	401,359	283 bp	
IonXpress.019	none	45,098,084	41,019,649	162,495	277 bp	
IonXpress.020	none	30,558,695	27,929,887	108,200	282 bp	
IonXpress.021	none	11,099,104	10,046,446	38,759	286 bp	
IonXpress.022	none	146,357,331	130,328,552	502,378	291 bp	
IonXpress.023	none	105,897,917	93,508,108	349,399	303 bp	
IonXpress.025	none	174,594,841	156,958,865	571,681	305 bp	
IonXpress.026	none	136,152,817	123,043,624	442,329	307 bp	
IonXpress.027	none	41,164,852	38,068,724	170,296	241 bp	
IonXpress.028	none	2,912,588	2,650,030	9,754	298 bp	
IonXpress.029	none	100,044,674	90,142,623	353,616	282 bp	
IonXpress.030	none	43,197,077	38,659,118	138,855	311 bp	
IonXpress.031	none	69,900,215	62,609,135	218,028	320 bp	
IonXpress.032	none	53,238,598	47,529,179	193,313	275 bp	
IonXpress.034	none	159,230,444	144,714,881	525,200	303 bp	
IonXpress.035	none	59,083,686	53,274,164	221,829	266 bp	
IonXpress.036	none	29,597,116	27,310,691	97,999	302 bp	
IonXpress.037	none	51,900,750	47,215,457	177,267	292 bp	
IonXpress.039	none	76,609,012	68,227,231	284,815	268 bp	
IonXpress.040	none	1,683,172	1,524,177	6,016	279 bp	
IonXpress.041	none	143,585,900	127,731,970	443,896	323 bp	
IonXpress.042	none	129,250,162	117,298,445	404,781	319 bp	

Run Report for Auto_user_S5XL-00297-107-is_057_001_002_292

IonXpress.043	none	62,298,516	58,340,565	193,423	322 bp	
IonXpress.044	none	44,562,101	39,151,644	152,430	292 bp	
IonXpress.046	none	183,187,994	163,476,686	581,733	314 bp	
IonXpress.048	none	2,420,823	2,173,908	7,878	307 bp	
IonXpress.049	none	109,419,859	98,095,911	367,348	297 bp	
IonXpress.050	none	144,389,746	130,705,462	474,493	304 bp	
IonXpress.051	none	77,057,750	68,968,697	279,662	275 bp	
IonXpress.052	none	106,043,147	96,390,306	334,626	316 bp	
IonXpress.054	none	28,685,581	25,365,811	112,899	254 bp	
IonXpress.055	none	54,574,815	49,762,331	192,942	282 bp	
IonXpress.057	none	137,131,785	124,634,739	437,488	313 bp	
IonXpress.058	none	90,241,442	82,194,007	321,832	280 bp	
IonXpress.059	none	97,444,277	88,003,128	297,672	327 bp	
IonXpress.060	none	81,603,621	73,137,927	278,407	293 bp	
IonXpress.061	none	2,109,002	1,890,322	6,782	310 bp	
IonXpress.062	none	47,740,282	42,546,343	167,963	284 bp	
IonXpress.063	none	39,131,983	35,551,019	139,084	281 bp	
IonXpress.064	none	109,964,980	97,898,855	366,377	300 bp	
IonXpress.065	none	65,994,840	60,506,392	227,427	290 bp	
IonXpress.066	none	135,881,634	121,147,611	440,036	308 bp	
IonXpress.067	none	64,748,469	57,558,817	225,195	287 bp	
IonXpress.068	none	101,039,375	92,192,707	338,747	298 bp	
IonXpress.069	none	8,030,007	7,253,760	26,484	303 bp	
IonXpress.070	none	78,242,726	70,190,632	271,301	288 bp	
IonXpress.073	none	120,947,513	108,277,891	408,053	296 bp	
IonXpress.074	none	2,465,794	2,235,297	8,513	289 bp	

Run Report for Auto_user_S5XL-00297-107-is_057_001_002_292

IonXpress.076	none	83,457,743	72,511,130	257,919	323 bp	
IonXpress.077	none	38,981,025	34,973,658	138,922	280 bp	
IonXpress.078	none	57,617,992	50,153,786	193,235	298 bp	
IonXpress.079	none	80,800,803	73,090,326	270,747	298 bp	
IonXpress.080	none	1,323,445	1,214,333	12,170	108 bp	
IonXpress.081	none	29,531,439	26,756,386	106,415	277 bp	
IonXpress.084	none	138,184,921	127,139,309	468,941	294 bp	
IonXpress.086	none	41,105,051	38,051,829	144,996	283 bp	
IonXpress.087	none	124,769,124	112,676,714	412,287	302 bp	
IonXpress.088	none	87,176,590	77,713,967	280,289	311 bp	
IonXpress.089	none	150,573,860	136,341,205	507,835	296 bp	
IonXpress.090	none	109,395,554	94,476,007	354,200	308 bp	
IonXpress.091	none	33,934,263	30,552,137	113,015	300 bp	
IonXpress.092	none	630,716	577,046	10,909	57 bp	
IonXpress.094	none	89,314,973	79,854,616	303,338	294 bp	
IonXpress.096	none	68,727,419	62,037,415	238,786	287 bp	

Test Fragment	Reads	Percent 50AQ17	Read Length Histogram
TF_1	822	70	

Alignment Summary (aligned to)

0

Total Alignment Bases

Average Coverage
Depth of Reference

alignment_rate_plot.png

Count

%

Total Reads0-

Aligned Reads00%

%

Mean Raw Accuracy 1x

base_error_plot.png

Alignment Quality

	AQ17	AQ20	Perfect
Total Number of Bases [Mbp]	0	0	0
Mean Length [bp]	0	0	0
Longest Alignment [bp]	0	0	0
Mean Coverage Depth			

Filtered_Alignments_Q10.png

Filtered_Alignments_Q17.png

Filtered_Alignments_Q20.png

Filtered_Alignments_Q47.png

Analysis Details

Run Name	R_2018_04_04_08_08_06_user_S5XL-00297-107-is_057_001_002
Run Date	April 4, 2018, 8:09 a.m.
Run Flows	850
Projects	is_057
Sample	is_057_001
Reference	
Instrument	S5XL-00297
Operation Mode	Customer mode
Flow Order	TACGTACGTCTGAGCATCGATCGATGTACAGC
Library Key	TCAG
TF Key	ATCG
Chip Barcode	
Chip Check	Passed
Chip Type	530
Chip Data	tiled
Chip Lot Number	QPW145
Chip Wafer	23
Barcode Set	IonXpress
Analysis Name	Auto_user_S5XL-00297-107-is_057_001_002_292
Analysis Date	April 4, 2018, 2:36 p.m.
Analysis Flows	0
runID	FITMZ
BeadFind Args	justBeadFind -args-json /opt/ion/config/args_530_beadfind.json
Analysis Args	Analysis -args-json /opt/ion/config/args_530_analysis.json
Pre-BaseCaller	BaseCaller -barcode-filter 0.01 -barcode-filter-minreads 10 -phasing-residual-filter=2.0 -wells-normalization on
Calibration Args	Calibration -num-calibration-regions 1,1
BaseCaller Args	BaseCaller -barcode-filter 0.01 -barcode-filter-minreads 10 -phasing-residual-filter=2.0 -num-unfiltered 1000 -barcode-filter-postpone 1 -qual-filter true -qual-filter-slope 0.040 -qual-filter-offset 1.0 -wells-normalization on
Alignment Args	tmap mapall -q 50000 ... stage1 map4
IonStats Args	ionstats alignment
Analysis Parameters	default

Chef Summary

Chef Template Prep Information:

Chef Last Updated	April 4, 2018, 8:01 a.m.
Chef Instrument Name	CHEF00391
Chef Operation Mode	Customer Mode
Sample Position	1
Tip Rack Barcode	46B150068
Chip Type 1	530v1
Chip Type 2	530v1
Chip Expiration 1	None
Chip Expiration 2	None
Templating Kit Type	Ion 520
amp; Ion 530 Kit-Chef	
Chef Flexible Workflow	
Reagent Expiration	180430
Reagent Lot Number	1880068
Reagent Part Number	A27756C
Reagent Cartridge Serial Number	None
Solution Lot Number	1850861
Solution Part Number	A27754C
Templating Protocol Planned	(use instrument default)
Solution Cartridge Serial Number	None
Solution Expiration	180228
Templating Protocol Executed	(use instrument default)
Chef Script Version	704
Chef Package Version	IC.5.8.0.DEV.7
Start Time	April 3, 2018, 3:28 p.m.
Completion Time	April 4, 2018, 8:01 a.m.

S5 Consumables Summary

Chip Type	530v1
Chip Barcode	DADI00927

Product Description	Part Number	Lot Number	Exp. Date	Remaining Uses
Ion S5 Sequencing Reagent	INS1012841B	1916037	2018/12/31	1
Ion S5 Cleaning Solution	100031096	1911361	2018/09/30	2
Ion S5 Wash Solution	100031091B	1911386	2018/09/30	1

Software Version

Torrent_Suite	5.8.0.RC2
host	4JJFW52
ion-analysis	5.8.10-1
ion-chefupdates	5.8.1
ion-dbreports	5.8.19-1
ion-gpu	5.8.1-1
ion-pipeline	5.8.2-1
ion-plugins	5.8.12-1
ion-protonupdates	5.8.0
ion-s5updates	5.8.0
ion-torrentpy	5.8.10-1
ion-torrentr	5.8.10-1
S5 Script	0.1.31
LiveView	2348
DataCollect	3548
OIA	5810
OS	34
Graphics	89
Ion_Chef	IC.5.8.0.DEV.7