Sample Prep Kit QC Results

Purpose:	**GuardantOMNI CDx Sample Preparation Kit – QC Lot Release Data**
Job ID:	**846294**
URL to output file:	**http://bifs.ghdna.io//ghds/apps/rundeck/omni/SPK_qualification/ spk.846294//SPK_QC_Results_846294.pdf**
Component Box 1 Lot Number:	**000000715**
Component Box 2 Lot Number:	**000000716**
Component Box 3 Lot Number:	**000000717**
Component Box 4(a/b/c) Lot Number:	**000000718**
GM12878 QC Lot Number:	**20200417A**
GM Flowcell Barcode:	**BHF7N5DSXY**
Mean GC IQR of GM12878 QC material	**1.54**
Mean MAPD of GM12878 QC material	**0.08**
SPK Flowcell Barcode:	**AHF75LDSXY**
BIP version:	**3.9.1-omni**
Script Name:	**Omni_SPK_QC.py**
Script Version:	**v1.0.2(v1.0.2-RLS-198-f46192e)**
Location of the Input Files:	**/ghds/ivd/flowcentral/200806_A00274_0347_AHF75LDSXY.3b430d29 -30d5-4387-a2a3-b0484cf9889d.20200813161529**
Location of the Output Files:	**/ghds/apps/rundeck/omni/SPK_qualification/spk.846294**
Date Data Analyzed:	**08/24/2020**
Qualification Pass/Fail	**PASS**

Sequencing Quality Metrics

Metric	Passing Criteria	Value	Pass/Fail
Mean Cluster Density	$\geq$500000 clusters per mm^2	2961000 clusters per mm^2	PASS
Percentage of Clusters Passing Filter	$\geq$50.00 %	79.92 %	PASS
Maximum Phasing Value	$\leq$0.0100	0.0005	PASS
Maximum Pre-phasing Value	$\leq$0.0100	0.0048	PASS
Minimum Quality Score	$\geq$70.00 %	79.28 %	PASS

Variant Control Quality Metrics

Metric	Passing Criteria	Value	Pass/Fail
Non-Singleton Molecule Count	$\geq$500.00 molecules	1870.50 molecules	PASS
Family Contamination %	$\leq$0.50 %	0.01 %	PASS
SNV Sensitivity	=100.00 %	100.00 %	PASS
Indel Sensitivity	=100.00 %	100.00 %	PASS
Fusion Sensitivity	=100.00 %	100.00 %	PASS
CNV Sensitivity	=100.00 %	100.00 %	PASS

Sample Quality Metrics

Metric	Passing Criteria	Value	Pass/Fail
Median NSC	$\geq$1824.00 reads	2254.75 reads	PASS
Robust %CV for NSC	$\leq$12.6 %	3.5 %	PASS
Maximum value for UMI %CV	$\leq$65.00 %	35.03 %	PASS
Mean GC IQR	1.02 - 2.06	1.65	PASS
Robust %CV GC IQR	$\leq$10.1 %	2.6 %	PASS
Mean MAPD	0.04 - 0.12	0.08	PASS
Robust %CV for MAPD	$\leq$9.2 %	3.7 %	PASS
Family Contamination %	$\leq$0.25 %	0.01 %	PASS
Median On Target Rate	$\geq$75.00 %	91.61 %	PASS
Robust %CV On Target Rate	$\leq$1.1 %	0.6 %	PASS

Performed by:

Performed Date: