

Refurbish Report Sheet

FPA-3000i4

S/N : 502421

Date : 2019.12.

Classification		Item			Result	Spec	Judge	
1	Lens	1	Distortion (NA0.63/σ0.65)	DX	0.028	≤±0.05um	ok	
				DY	0.046			
2	Illuminator Adjustment Accuracy	1	Intensity		NA0.63/σ0.65	6789	≥6000w/m²	ok
		2	Uniformity		NA0.63/σ0.65	1.420	≤2.0%	
		3	LPA			0.852	L = 0.845±0.015	
3	Focus Adjustment Accuracy	1	Focus Leveling Measurement Repeatability	Focus		0.033	3 σ 0.08μm	ok
				Leveling	X	3.0	3 σ 6 ppm	
					Y	1.6		
				Etch Ch.	Ch1	0.042	≤ 3 σ 0.10μm	
					Ch2	0.052		
					Ch3	0.043		
					Ch4	0.032		
					Ch5	0.047		
		3	ALFC Repeatability	Left (n=25)		0.048	3σ 0.10μm	
4	FRA Accuracy	1	ROC Repeatability	XL		0.003	≤ 3σ 0.010μm	ok
				YL		0.001		
				XR		0.004		
				YR		0.001		
		2	Reticle Rotation	Accuracy		-0.01	0.02um	
5	Stage Offsetting	1	Orthogonality			0.05	±0.5ppm	ok
		2	Scaling	X		-0.09	±0.5ppm	
				Y		-0.07		
6	SRC	1	SRC Repeatability	n=25		0.221	3 σ 0.5ppm	ok
7	BLC Repeatability	1	Base Line Repeatability(Mo	X	3-sigma	0.009	3σ 0.030μm	ok
				Y		0.007		
				X	Range	0.014	Range 0.030μm	
				Y		0.008		
			Base Line Repeatability(Mo	X	3-sigma	0.006	3σ 0.030μm	
				Y		0.009		
				X	Range	0.009	Range 0.030μm	
				Y		0.012		
			Base Line Repeatability(Mo	X	3-sigma	0.006	3σ 0.030μm	
				Y		0.006		
				X	Range	0.007	Range 0.030μm	
				Y		0.007		
			Base Line Repeatability(Mo	X	3-sigma	0.008	3σ 0.030μm	
				Y		0.006		
				X	Range	0.011	Range 0.030μm	
				Y		0.008		

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Classification		Item				Result	Spec	Judge
8	B/C Scope Confirmation	1	TOC Measurement Repeatability	Mode1	B	0.011	$\leq$ 3σ 0.020 μ m	ok
					C	0.010		
				Mode2	B			
					C			
				Mode3	B	0.013		
					C	0.013		
				Mode4	B			
					C			
		2	Defocus Characteristics	B(Mode1)	Ka	-1	± 20	ok
					Kb	-2		
					Kc	0	± 7	
				C(Mode1)	Ka	2	± 20	
					Kb	4		
					Kc	0	± 7	
				B(Mode2)	Ka	-14	± 20	
					Kb	-12		
					Kc	0	± 7	
				C(Mode2)	Ka	-3	± 20	
					Kb	-3		
					Kc	0	± 7	
				B(Mode3)	Ka	0	± 20	
					Kb	0		
					Kc	0	± 7	
				C(Mode3)	Ka	5	± 20	
					Kb	6		
					Kc	0	± 7	
				B(Mode4)	Ka	-1	± 20	
					Kb	-1		
					Kc	0	± 7	
				C(Mode4)	Ka	2	± 20	
					Kb	3		
					Kc	0	± 7	

IUC

@ Thu Dec 5 10:07:42 2019 Uniformity Check iuc Page 1-1

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]
[1]	52.2#	99.4#	99.9#	100.5	100.7	100.9	101.0	101.2	101.3	101.5	101.4	101.5	101.6
[2]	100.0#	100.6	101.0	101.3	101.5	101.6	101.6	101.7	101.8	102.1	101.6	101.9	102.0
[3]	100.5	101.1	101.4	101.7	101.7	101.8	101.7	101.8	101.9	102.0	102.0	101.5	102.0
[4]	101.1	101.4	101.3	101.6	101.5	101.6	101.8	101.7	101.6	101.6	101.7	101.7	101.9
[5]	101.6	101.8	101.1	101.5	101.4	101.4	101.4	101.2	100.8	101.2	101.3	101.3	101.4
[6]	101.7	101.7	101.3	101.3	101.2	100.9	101.0	101.0	100.9	100.8	100.8	100.9	101.0
[7]	102.0	101.9	101.6	101.4	100.8	100.8	100.7	100.8	100.8	100.7	100.8	100.8	100.8
[8]	102.1	102.0	101.6	101.2	100.9	100.7	99.8	100.7	100.6	100.6	100.7	100.7	100.8
[9]	102.0	101.6	101.6	101.1	100.8	100.8	100.7	100.6	100.3	100.6	100.6	100.7	100.6
[10]	102.0	101.8	101.5	101.1	100.9	100.8	100.7	100.5	100.5	100.5	100.6	100.7	100.7
[11]	102.0	101.7	101.4	101.1	100.8	100.7	100.6	100.5	100.4	100.4	100.4	100.6	100.7
[12]	101.9	101.8	101.4	101.2	100.9	100.8	100.5	100.5	100.4	100.4	100.5	100.6	100.6
[13]	102.0	101.8	101.5	101.0	101.0	100.8	100.6	100.6	100.5	100.5	100.5	100.5	100.7
[14]	102.0	101.8	101.6	101.4	101.0	100.9	100.7	100.7	100.7	100.7	100.7	100.8	100.8
[15]	102.0	101.8	101.7	101.3	101.0	100.8	100.8	100.9	100.8	100.8	100.8	100.8	100.7
[16]	101.8	101.9	101.6	101.3	101.2	101.1	100.9	101.1	100.9	100.9	100.9	100.9	101.0
[17]	101.6	101.8	101.7	101.6	101.4	101.5	101.2	101.0	101.2	101.3	101.3	101.2	101.2
[18]	101.3	101.5	101.7	101.7	101.7	101.8	101.7	101.7	101.7	101.7	101.8	101.8	101.7
[19]	100.9	101.4	101.8	101.9	102.0	102.0	102.0	102.2	102.2	102.1	102.2	102.3	102.3
[20]	100.3#	101.1	101.4	101.6	101.9	102.0	102.0	102.1	102.2	102.3	102.4	102.3	102.5
[21]	59.7#	100.2#	100.6#	101.2	101.5	101.7	101.8	101.7	102.0	102.0	102.3	102.2	102.3

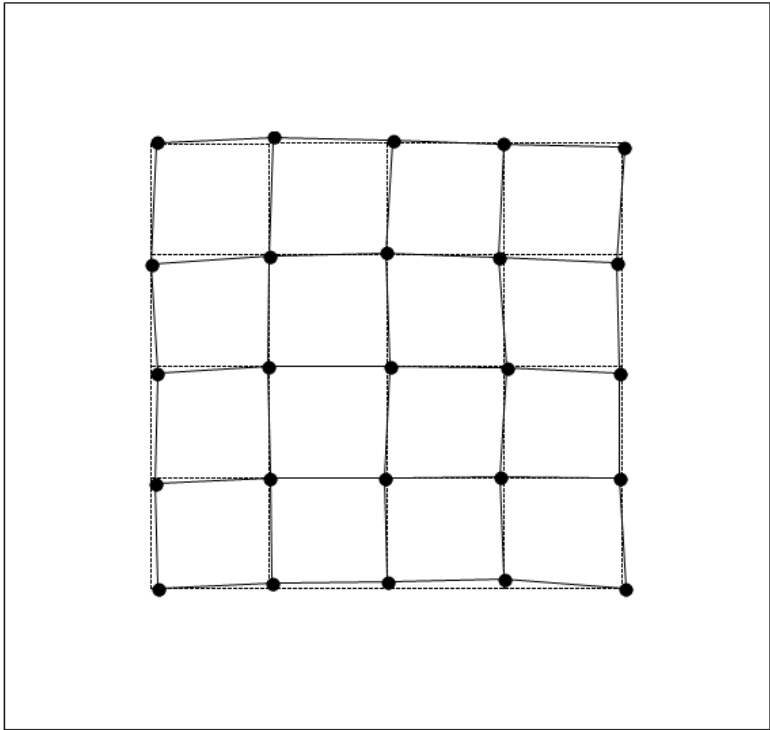
Thu Dec 5 10:07:42 2019 Uniformity Check iuc Page 1-2

	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]
[1]	101.2	101.1	100.8	100.4	100.2	99.9#	99.4#	56.4#
[2]	101.9	101.9	101.6	101.2	101.0	100.7	100.4	99.8#
[3]	102.0	101.9	101.7	101.7	101.4	101.1	101.0	100.5
[4]	101.7	101.7	101.5	101.5	101.6	101.4	101.4	101.1
[5]	101.5	101.5	101.5	101.4	101.5	101.6	101.8	101.5
[6]	101.1	101.0	101.3	101.2	101.4	101.6	102.0	101.9
[7]	100.9	100.8	101.0	101.3	101.5	101.7	102.3	102.2
[8]	100.9	100.8	100.9	101.2	101.6	101.9	102.4	102.4
[9]	100.7	100.8	100.9	101.2	101.7	102.1	102.6	102.7
[10]	100.7	100.8	100.9	101.1	101.7	102.1	102.5	102.5
[11]	100.7	100.8	100.8	101.0	101.6	101.8	102.3	102.4
[12]	100.7	100.8	100.6	100.9	101.4	101.7	102.1	102.2
[13]	100.7	100.5	100.8	100.8	101.3	101.5	101.7	102.3
[14]	100.8	100.7	100.8	101.1	101.3	101.6	102.0	102.1
[15]	100.8	100.8	100.9	101.1	101.3	101.7	101.9	101.9
[16]	101.0	100.9	100.9	101.1	101.3	101.6	101.6	101.6
[17]	101.3	101.2	101.3	101.4	101.6	101.6	101.6	101.5
[18]	101.8	101.7	101.8	101.7	101.7	101.3	101.3	101.3
[19]	102.2	102.2	102.0	101.9	101.7	101.2	101.2	100.8
[20]	102.2	102.2	102.1	101.8	101.6	100.9	100.9	100.2#
[21]	102.1	101.9	101.8	101.5	101.1	100.4#	100.2#	62.4#

[file information]

file_name	: iuc		
date	: 2019/12/05	Pitch x	: 1.1000 (mm)
time	: 10:06:59	Pitch y	: 1.3000 (mm)
Region x	: 22.0000 (mm)	IUC value	: 1.420 (%)
Region y	: 26.0000 (mm)	UC	: 6789.000

Distortion Map ー補正無しー



Date :
コメント: Reticle:
Stage法

DX :	0.028	[μ m]	
DY :	0.046	[μ m]	
Rotation :	0.025		(ppm)
(X:Y)	0.000	0.051	(ppm)
Mag. :	-2.222		(ppm)
(X:Y)	-2.548	-1.896	(ppm)
Mag Ofs :	-0.0346		(μ m)

表示倍率= 0.5 μm/pitch

LPA

Lamp\Position\Adjustment

Measure

Hcopy

Help

Exit

L = [0.852] Lamp Z = [OK] Z = [*****]

Lamp XY Adjustment

+-----+	+-----+	+-----+
96.7	99.3	94.0
+-----+	+-----+	+-----+
100.1	100.0	97.5
+-----+	+-----+	+-----+
96.7	99.2	93.9
+-----+	+-----+	+-----+

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TSOC (on Wafer)

Data	Z um	X ppm	Y ppm	C1m um	C2m um	C3 um	C4m um	C5m um
1	0.17	43.5	-55.3	-0.77	0.09	0.35	0.29	0.92
2	0.17	38.8	-55.7	-0.73	0.05	0.33	0.33	0.88
3	0.16	39	-55.8	-0.75	0.04	0.32	0.33	0.87
4	0.17	39.5	-57	-0.75	0.04	0.32	0.33	0.89
5	0.17	39.3	-55.8	-0.75	0.06	0.33	0.33	0.87
6	0.16	39.8	-55.3	-0.75	0.06	0.32	0.32	0.88
7	0.16	40.3	-56.1	-0.77	0.05	0.31	0.32	0.88
8	0.16	38.6	-56.1	-0.75	0.04	0.32	0.33	0.87
9	0.18	39.5	-55.3	-0.74	0.07	0.33	0.34	0.88
10	0.18	40.5	-55.3	-0.74	0.08	0.35	0.33	0.89
11	0.17	40	-55.5	-0.76	0.07	0.34	0.33	0.87
12	0.17	38.5	-55.4	-0.74	0.05	0.32	0.33	0.87
13	0.14	38.8	-56.4	-0.77	0.02	0.28	0.31	0.86
14	0.16	39.8	-56.6	-0.77	0.05	0.32	0.33	0.88
15	0.15	39.2	-56	-0.77	0.03	0.31	0.32	0.86
16	0.15	39.7	-55.8	-0.76	0.03	0.31	0.31	0.87
17	0.14	37.8	-55.7	-0.76	0.02	0.31	0.32	0.83
18	0.15	39.8	-55	-0.75	0.04	0.32	0.3	0.87
19	0.16	39.5	-55.7	-0.75	0.05	0.32	0.32	0.88
20	0.15	39.1	-57	-0.77	0.03	0.31	0.33	0.87
21	0.17	39.2	-55.3	-0.74	0.06	0.32	0.33	0.88
22	0.16	40	-55.5	-0.75	0.06	0.31	0.32	0.88
23	0.16	39	-55.2	-0.74	0.04	0.32	0.32	0.87
24	0.15	39.3	-55.8	-0.77	0.04	0.32	0.32	0.86
25	0.14	39.3	-56.5	-0.79	0.03	0.3	0.32	0.85
Max.	0.18	43.5	-55	-0.73	0.09	0.35	0.34	0.92
Min.	0.14	37.8	-57	-0.79	0.02	0.28	0.29	0.83
Mean	0.16	39.5	-55.8	-0.76	0.05	0.32	0.32	0.87
Cont	25	25	25	25	25	25	25	25
Range	0.04	5.7	2	0.06	0.07	0.07	0.05	0.09
3-S	0.033	3.0	1.6	0.042	0.052	0.043	0.032	0.047

Focus Drive Measurement Repeatabily

Shot	Sensor	CH-1	CH-2	CH-3	CH-4	CH-5	Z (um)	X(ppm)	Y(ppm)
1	{M,x,M,M,M}	-0.05	88.88	0.09	0.02	-0.01	0.009	0.53	-2.01
2	{M,M,M,M,M}	0.03	-0.06	0.05	-0.08	0.02	-0.006	0.45	0.95
3	{M,M,M,M,M}	-0.09	0.05	0.06	0.03	-0.07	-0.005	1.13	-0.08
4	{x,M,M,M,M}	88.88	-0.13	0.1	-0.12	-0.04	-0.05	0.52	-0.78
5	{x,M,M,M,M}	88.88	0.07	0.11	0.05	0.03	0.074	-1.68	2.92
6	{M,M,M,M,M}	0.15	0.01	0.05	0.03	0.15	0.078	-0.68	-0.98
7	{M,M,M,M,M}	0.01	-0.05	0.03	-0.06	0.06	-0.001	1.6	-1.14
8	{M,M,M,M,M}	-0.1	0.06	0.11	0.09	-0.12	0.008	-1.27	-0.47
9	{M,M,M,M,M}	0	-0.04	0.02	-0.03	-0.02	-0.01	-0.8	0.47
10	{M,x,M,M,M}	-0.04	88.88	0.03	-0.03	-0.05	-0.023	0	0.65
11	{M,M,M,M,M}	0.03	-0.01	0.12	-0.01	0.02	0.029	-0.26	0.1
12	{M,M,M,M,M}	-0.09	0.22	0.04	0.21	-0.06	0.063	1.26	-0.46
13	{M,M,M,M,M}	0	0.01	0.15	0	0.01	0.034	0.84	0.03
14	{M,M,M,M,M}	0.04	0.01	0.07	0.01	0.05	0.037	0.14	-0.47
15	{M,M,M,M,M}	0.08	0	0.01	-0.01	0.06	0.03	-0.22	0.92
16	{M,M,M,M,M}	0.07	-0.01	-0.12	-0.04	0.08	-0.005	1.45	0.36
17	{M,M,M,M,M}	0.03	0.05	-0.01	0.04	0.05	0.032	0.55	-0.43
18	{M,M,M,M,M}	-0.04	0.02	0.03	0.08	-0.09	0.001	-3.23	-0.16
19	{M,M,M,M,M}	0.02	-0.07	0.16	-0.06	0.01	0.013	-0.28	0.17
20	{M,M,M,M,M}	-0.01	-0.05	0.14	-0.07	-0.01	0.001	1.02	0.62
21	{M,M,M,M,M}	-0.03	-0.05	-0.01	-0.07	-0.05	-0.041	0.15	1.43
22	{M,M,M,M,M}	-0.06	0.02	0.04	0.07	-0.05	0.004	-1.13	-1.45
23	{M,M,M,M,x}	0	-0.05	0.09	-0.06	88.88	-0.005	-0.19	0.66
24	{M,M,M,M,M}	0.12	-0.04	0.09	-0.02	0.12	0.055	-0.67	-0.58
25	{M,M,M,M,M}	0.01	0.06	0.02	0.1	0.05	0.047	0.35	-2.38
26	{M,M,M,M,M}	-0.06	0.03	0.04	0.03	-0.05	-0.005	0.37	-0.16
27	{M,M,M,M,M}	0.02	0.04	-0.01	0.05	0.04	0.028	0.08	-0.7
28	{M,M,M,x,M}	-0.04	0.01	0.12	88.88	-0.01	0.02	0.21	-1.47
29	{M,M,M,x,M}	-0.06	-0.05	0	88.88	-0.04	-0.032	-0.73	-1.78
30	{M,M,M,M,M}	-0.01	0.01	0.07	0.02	0	0.019	-0.1	-0.63
31	{M,M,M,M,M}	-0.01	0.01	0.16	0.05	0.03	0.047	-0.02	-2.33
32	{M,M,M,M,x}	0	-0.04	0.07	-0.05	88.88	-0.007	0	0.55

3-Sigma 0.09354 2.9086 3.38559

ALFC Repeatability

Advanced Lens Focus Check (LEFT)

1 -0.089 [um]
2 -0.096 [um]
3 -0.098 [um]
4 -0.084 [um]
5 -0.086 [um]
6 -0.091 [um]
7 -0.087 [um]
8 -0.085 [um]
9 -0.084 [um]
10 -0.100 [um]
11 -0.066 [um]
12 -0.089 [um]
13 -0.083 [um]
14 -0.078 [um]
15 -0.071 [um]
16 -0.057 [um]
17 -0.074 [um]
18 -0.053 [um]
19 -0.093 [um]
20 -0.037 [um]
21 -0.084 [um]
22 -0.070 [um]
23 -0.069 [um]
24 -0.050 [um]
25 -0.063 [um]

EFFICIENT DATA COUNT: 25

MAX: -0.037 [um]
MIN: -0.100 [um]
RANGE: 0.063 [um]
AVERAGE: -0.077 [um]
3-SIGMA: 0.048 [um]

ROC Repeatability

Reticle Offset Check

1	XL=-0.136	YL=-0.005	XR= 0.132	YR=-0.007 [um]
2	XL=-0.135	YL=-0.005	XR= 0.133	YR=-0.007 [um]
3	XL=-0.133	YL=-0.005	XR= 0.134	YR=-0.007 [um]
4	XL=-0.133	YL=-0.005	XR= 0.135	YR=-0.007 [um]
5	XL=-0.136	YL=-0.006	XR= 0.133	YR=-0.008 [um]
6	XL=-0.134	YL=-0.005	XR= 0.134	YR=-0.006 [um]
7	XL=-0.133	YL=-0.005	XR= 0.135	YR=-0.007 [um]
8	XL=-0.135	YL=-0.005	XR= 0.133	YR=-0.007 [um]
9	XL=-0.134	YL=-0.005	XR= 0.135	YR=-0.007 [um]
10	XL=-0.133	YL=-0.005	XR= 0.136	YR=-0.006 [um]
11	XL=-0.134	YL=-0.005	XR= 0.134	YR=-0.007 [um]
12	XL=-0.133	YL=-0.005	XR= 0.135	YR=-0.007 [um]
13	XL=-0.134	YL=-0.005	XR= 0.135	YR=-0.007 [um]
14	XL=-0.135	YL=-0.006	XR= 0.134	YR=-0.007 [um]
15	XL=-0.134	YL=-0.005	XR= 0.135	YR=-0.007 [um]
16	XL=-0.132	YL=-0.005	XR= 0.137	YR=-0.007 [um]
17	XL=-0.135	YL=-0.005	XR= 0.135	YR=-0.007 [um]
18	XL=-0.135	YL=-0.006	XR= 0.134	YR=-0.007 [um]
19	XL=-0.136	YL=-0.005	XR= 0.132	YR=-0.007 [um]
20	XL=-0.134	YL=-0.005	XR= 0.135	YR=-0.007 [um]
21	XL=-0.136	YL=-0.005	XR= 0.132	YR=-0.007 [um]
22	XL=-0.134	YL=-0.005	XR= 0.134	YR=-0.007 [um]
23	XL=-0.134	YL=-0.005	XR= 0.135	YR=-0.007 [um]
24	XL=-0.135	YL=-0.005	XR= 0.132	YR=-0.007 [um]
25	XL=-0.135	YL=-0.005	XR= 0.135	YR=-0.006 [um]

EFFICIENT DATA COUNT: 25

MAX:	XL=-0.132	YL=-0.005	XR= 0.137	YR=-0.006 [um]
MIN:	XL=-0.136	YL=-0.006	XR= 0.132	YR=-0.008 [um]
RANGE:	XL= 0.004	YL= 0.001	XR= 0.005	YR= 0.002 [um]
AVERAGE:	XL=-0.134	YL=-0.005	XR= 0.134	YR=-0.007 [um]
3-SIGMA:	XL= 0.003	YL= 0.001	XR= 0.004	YR= 0.001 [um]

Reticle Rotation

Average		1	2	3	4	5
Y1	-0.02	0.011	-0.1	-0.001	-0.001	-0.009
Y2	-0.0086	-0.018	-0.013	-0.002	-0.003	-0.007
Y3	-0.006	-0.005	-0.006	-0.004	-0.007	-0.008
Y4	-0.0096	-0.012	-0.013	-0.009	-0.005	-0.009
Y5	-0.0078	-0.004	-0.007	-0.011	-0.014	-0.003
Y	-0.0104					

Accuracy : -0.0104 um
 Repeatabilty : 0.004 um

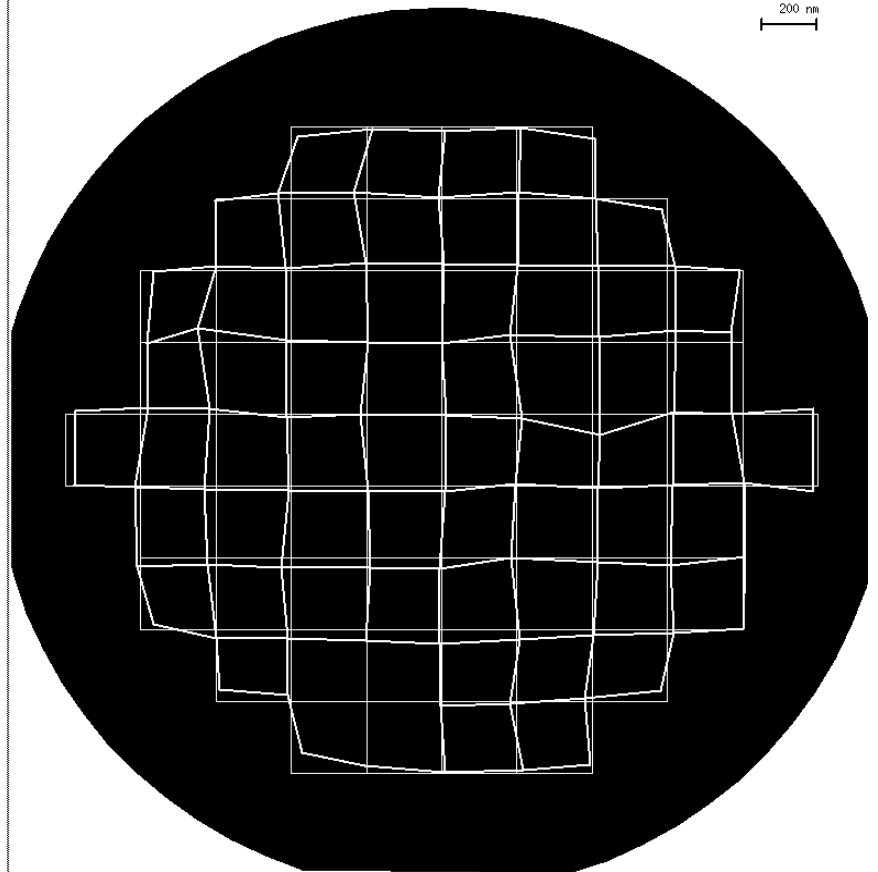
XYSA

Square Map

200 nm

Shift	X	-317 [nm]
	Y	-453 [nm]
Mag.	X	0.05 [ppm]
	Y	-0.09 [ppm]
Rot.	X	0.07 [ppm]
	Y	0.14 [ppm]
Orth.		-0.07 [ppm]
3sigma.	X	75 [nm]
	Y	82 [nm]

Linear Correct On



SRC Repeatability

1	Rot. = 7.732	Mag. = 7.454 [ppm]
2	Rot. = 7.699	Mag. = 7.092 [ppm]
3	Rot. = 7.553	Mag. = 7.149 [ppm]
4	Rot. = 7.700	Mag. = 7.191 [ppm]
5	Rot. = 7.699	Mag. = 7.111 [ppm]
6	Rot. = 7.727	Mag. = 7.156 [ppm]
7	Rot. = 7.808	Mag. = 7.092 [ppm]
8	Rot. = 7.707	Mag. = 7.046 [ppm]
9	Rot. = 7.762	Mag. = 7.073 [ppm]
10	Rot. = 7.675	Mag. = 6.981 [ppm]
11	Rot. = 7.715	Mag. = 7.053 [ppm]
12	Rot. = 7.755	Mag. = 7.103 [ppm]
13	Rot. = 7.788	Mag. = 7.057 [ppm]
14	Rot. = 7.831	Mag. = 7.198 [ppm]
15	Rot. = 7.826	Mag. = 7.187 [ppm]
16	Rot. = 7.720	Mag. = 7.149 [ppm]
17	Rot. = 7.864	Mag. = 7.095 [ppm]
18	Rot. = 7.884	Mag. = 7.202 [ppm]
19	Rot. = 7.806	Mag. = 7.000 [ppm]
20	Rot. = 7.774	Mag. = 7.057 [ppm]
Available Data 20 Measurement Span 26.200 [mm]		
Mean :	Rot. = 7.751	Mag. = 7.122 [ppm]
3Sigma :	Rot. = 0.221	Mag. = 0.295 [ppm]
Max :	Rot. = 7.884	Mag. = 7.454 [ppm]
Min :	Rot. = 7.553	Mag. = 6.981 [ppm]
Range :	Rot. = 0.331	Mag. = 0.473 [ppm]

BLC Repeatability

MODE 1

1	BIX = 0.084	BIY = 0.152 [um]
2	BIX = 0.076	BIY = 0.155 [um]
3	BIX = 0.074	BIY = 0.153 [um]
4	BIX = 0.075	BIY = 0.156 [um]
5	BIX = 0.078	BIY = 0.156 [um]
6	BIX = 0.079	BIY = 0.155 [um]
7	BIX = 0.080	BIY = 0.151 [um]
8	BIX = 0.077	BIY = 0.153 [um]
9	BIX = 0.079	BIY = 0.156 [um]
10	BIX = 0.074	BIY = 0.153 [um]
11	BIX = 0.079	BIY = 0.153 [um]
12	BIX = 0.079	BIY = 0.151 [um]
13	BIX = 0.079	BIY = 0.154 [um]
14	BIX = 0.078	BIY = 0.155 [um]
15	BIX = 0.081	BIY = 0.151 [um]
16	BIX = 0.081	BIY = 0.149 [um]
17	BIX = 0.086	BIY = 0.150 [um]
18	BIX = 0.072	BIY = 0.157 [um]
19	BIX = 0.079	BIY = 0.149 [um]
20	BIX = 0.080	BIY = 0.150 [um]
21	BIX = 0.079	BIY = 0.151 [um]
22	BIX = 0.081	BIY = 0.149 [um]
23	BIX = 0.079	BIY = 0.153 [um]
24	BIX = 0.074	BIY = 0.151 [um]
25	BIX = 0.077	BIY = 0.152 [um]

Available Data 25 Illumination Mode 1

Mean	:	BIX = 0.078	BIY = 0.153 [um]
3Sigma	:	BIX = 0.009	BIY = 0.007 [um]
Max	:	BIX = 0.086	BIY = 0.157 [um]
Min	:	BIX = 0.072	BIY = 0.149 [um]
Range	:	BIX = 0.014	BIY = 0.008 [um]

BLC Repeatability

MODE 2

1	BIX = 0.070	BIY = 0.141 [um]
2	BIX = 0.069	BIY = 0.138 [um]
3	BIX = 0.073	BIY = 0.142 [um]
4	BIX = 0.070	BIY = 0.140 [um]
5	BIX = 0.071	BIY = 0.142 [um]
6	BIX = 0.069	BIY = 0.140 [um]
7	BIX = 0.071	BIY = 0.143 [um]
8	BIX = 0.069	BIY = 0.145 [um]
9	BIX = 0.068	BIY = 0.140 [um]
10	BIX = 0.068	BIY = 0.146 [um]
11	BIX = 0.066	BIY = 0.142 [um]
12	BIX = 0.068	BIY = 0.145 [um]
13	BIX = 0.067	BIY = 0.146 [um]
14	BIX = 0.068	BIY = 0.145 [um]
15	BIX = 0.069	BIY = 0.146 [um]
16	BIX = 0.068	BIY = 0.144 [um]
17	BIX = 0.068	BIY = 0.148 [um]
18	BIX = 0.068	BIY = 0.142 [um]
19	BIX = 0.066	BIY = 0.147 [um]
20	BIX = 0.069	BIY = 0.146 [um]
21	BIX = 0.067	BIY = 0.143 [um]
22	BIX = 0.067	BIY = 0.149 [um]
23	BIX = 0.065	BIY = 0.150 [um]
24	BIX = 0.064	BIY = 0.149 [um]
25	BIX = 0.069	BIY = 0.147 [um]

Available Data 25 Illumination Mode 2

Mean :	BIX = 0.068	BIY = 0.144 [um]
3Sigma :	BIX = 0.006	BIY = 0.009 [um]
Max :	BIX = 0.073	BIY = 0.150 [um]
Min :	BIX = 0.064	BIY = 0.138 [um]
Range :	BIX = 0.009	BIY = 0.012 [um]

BLC Repeatability

MODE 3

1	BIX = 0.068	BIY = 0.152 [um]
2	BIX = 0.067	BIY = 0.154 [um]
3	BIX = 0.064	BIY = 0.152 [um]
4	BIX = 0.069	BIY = 0.155 [um]
5	BIX = 0.063	BIY = 0.152 [um]
6	BIX = 0.064	BIY = 0.153 [um]
7	BIX = 0.067	BIY = 0.152 [um]
8	BIX = 0.064	BIY = 0.152 [um]
9	BIX = 0.069	BIY = 0.153 [um]
10	BIX = 0.068	BIY = 0.151 [um]
11	BIX = 0.067	BIY = 0.153 [um]
12	BIX = 0.062	BIY = 0.152 [um]
13	BIX = 0.066	BIY = 0.152 [um]
14	BIX = 0.064	BIY = 0.148 [um]
15	BIX = 0.063	BIY = 0.154 [um]
16	BIX = 0.065	BIY = 0.148 [um]
17	BIX = 0.063	BIY = 0.153 [um]
18	BIX = 0.067	BIY = 0.150 [um]
19	BIX = 0.066	BIY = 0.151 [um]
20	BIX = 0.067	BIY = 0.148 [um]
21	BIX = 0.062	BIY = 0.153 [um]
22	BIX = 0.067	BIY = 0.153 [um]
23	BIX = 0.068	BIY = 0.154 [um]
24	BIX = 0.063	BIY = 0.153 [um]
25	BIX = 0.067	BIY = 0.149 [um]

Available Data 25 Illumination Mode 3

Mean :	BIX = 0.066	BIY = 0.152 [um]
3Sigma :	BIX = 0.006	BIY = 0.006 [um]
Max :	BIX = 0.069	BIY = 0.155 [um]
Min :	BIX = 0.062	BIY = 0.148 [um]
Range :	BIX = 0.007	BIY = 0.007 [um]

BLC Repeatability

MODE 4

1	BIX = 0.068	BIY = 0.156 [um]
2	BIX = 0.069	BIY = 0.160 [um]
3	BIX = 0.068	BIY = 0.159 [um]
4	BIX = 0.064	BIY = 0.158 [um]
5	BIX = 0.067	BIY = 0.161 [um]
6	BIX = 0.066	BIY = 0.163 [um]
7	BIX = 0.068	BIY = 0.164 [um]
8	BIX = 0.063	BIY = 0.160 [um]
9	BIX = 0.069	BIY = 0.160 [um]
10	BIX = 0.068	BIY = 0.163 [um]
11	BIX = 0.066	BIY = 0.159 [um]
12	BIX = 0.066	BIY = 0.163 [um]
13	BIX = 0.069	BIY = 0.159 [um]
14	BIX = 0.061	BIY = 0.161 [um]
15	BIX = 0.072	BIY = 0.159 [um]
16	BIX = 0.068	BIY = 0.162 [um]
17	BIX = 0.065	BIY = 0.162 [um]
18	BIX = 0.064	BIY = 0.162 [um]
19	BIX = 0.064	BIY = 0.161 [um]
20	BIX = 0.066	BIY = 0.159 [um]
21	BIX = 0.067	BIY = 0.163 [um]
22	BIX = 0.069	BIY = 0.163 [um]
23	BIX = 0.062	BIY = 0.160 [um]
24	BIX = 0.072	BIY = 0.161 [um]
25	BIX = 0.067	BIY = 0.158 [um]

Available Data 25 Illumination Mode 4

Mean :	BIX = 0.067	BIY = 0.160 [um]
3Sigma :	BIX = 0.008	BIY = 0.006 [um]
Max :	BIX = 0.072	BIY = 0.164 [um]
Min :	BIX = 0.061	BIY = 0.156 [um]
Range :	BIX = 0.011	BIY = 0.008 [um]

TOC Measurement (Mode1)

Mode1 / B-Scope

1. -0.033[um]
2. -0.037[um]
3. -0.029[um]
4. -0.032[um]
5. -0.025[um]
6. -0.033[um]
7. -0.032[um]
8. -0.025[um]
9. -0.034[um]
10. -0.033[um]
11. -0.034[um]
12. -0.030[um]
13. -0.032[um]
14. -0.028[um]
15. -0.038[um]
16. -0.035[um]
17. -0.028[um]
18. -0.030[um]
19. -0.029[um]
20. -0.038[um]

Avail Data: 20

Average -0.032[um]
3sigma 0.011[um]
Max -0.025[um]
Min -0.038[um]
Range 0.014[um]

Mode1 / C-Scope

1. -0.014[um]
2. -0.005[um]
3. -0.011[um]
4. -0.008[um]
5. -0.007[um]
6. -0.005[um]
7. -0.011[um]
8. -0.017[um]
9. -0.009[um]
10. -0.015[um]
11. -0.014[um]
12. -0.013[um]
13. -0.014[um]
14. -0.012[um]
15. -0.006[um]
16. -0.011[um]
17. -0.011[um]
18. -0.011[um]
19. -0.012[um]
20. -0.010[um]

Avail Data: 20

Average -0.011[um]
3sigma 0.010[um]
Max -0.005[um]
Min -0.017[um]
Range 0.012[um]

TOC Measurement (Mode3)

Mode3 / B-Scope

1. -0.032[um]
2. -0.034[um]
3. -0.038[um]
4. -0.029[um]
5. -0.032[um]
6. -0.032[um]
7. -0.027[um]
8. -0.029[um]
9. -0.023[um]
10. -0.031[um]
11. -0.029[um]
12. -0.036[um]
13. -0.026[um]
14. -0.035[um]
15. -0.029[um]
16. -0.039[um]
17. -0.026[um]
18. -0.026[um]
19. -0.038[um]
20. -0.032[um]

Avail Data: 20

Average -0.031[um]
3sigma 0.013[um]
Max -0.023[um]
Min -0.039[um]
Range 0.016[um]

Mode3 / C-Scope

1. -0.000[um]
2. -0.007[um]
3. -0.007[um]
4. -0.005[um]
5. -0.013[um]
6. -0.009[um]
7. -0.015[um]
8. -0.012[um]
9. -0.017[um]
10. -0.011[um]
11. -0.013[um]
12. -0.003[um]
13. -0.008[um]
14. -0.008[um]
15. -0.004[um]
16. -0.007[um]
17. -0.009[um]
18. -0.015[um]
19. -0.011[um]
20. -0.006[um]

Avail Data: 20

Average -0.009[um]
3sigma 0.013[um]
Max -0.000[um]
Min -0.017[um]
Range 0.016[um]

Defocus Charact Check

Mode 1 B-Scope

<<< AA defocus characteristic >>>					
N	K	Xl	Yl	Xr	Yr
Total	Z =-3.00	-99999	-99999	-10	67
Total	Z = 0.00	-99999	-99999	-10	62
Total	Z = 3.00	-99999	-99999	-10	55
Total	Ka	0	0	0	-1
Total	Kb	0	0	0	-2
Total	Kc	0	0	0	0

Mode 1 C-Scope

<<< AA defocus characteristic >>>					
N	K	Xl	Yl	Xr	Yr
Total	Z =-3.00	-99999	-99999	-24	56
Total	Z = 0.00	-99999	-99999	-16	56
Total	Z = 3.00	-99999	-99999	-4	56
Total	Ka	0	0	2	0
Total	Kb	0	0	4	0
Total	Kc	0	0	0	0

Mode 2 B-Scope

<<< AA defocus characteristic >>>					
N	K	Xl	Yl	Xr	Yr
Total	Z = -3.00	-99999	-99999	-10	112
Total	Z = 0.00	-99999	-99999	-10	69
Total	Z = 3.00	-99999	-99999	-10	31
Total	Ka	0	0	0	-14
Total	Kb	0	0	0	-12
Total	Kc	0	0	0	0

Mode 2 C-Scope

<<< AA defocus characteristic >>>					
N	K	Xl	Yl	Xr	Yr
Total	Z = -3.00	-99999	-99999	6	56
Total	Z = 0.00	-99999	-99999	-4	56
Total	Z = 3.00	-99999	-99999	-14	56
Total	Ka	0	0	-3	0
Total	Kb	0	0	-3	0
Total	Kc	0	0	0	0

Mode 3 B-cope

<<< AA defocus characteristic >>>					
N	K	Xl	Yl	Xr	Yr
Total	Z = -3.00	-99999	-99999	-10	75
Total	Z = 0.00	-99999	-99999	-10	75
Total	Z = 3.00	-99999	-99999	-10	77
Total	Ka	0	0	0	0
Total	Kb	0	0	0	0
Total	Kc	0	0	0	0

Mode 3 C-Scope

<<< AA defocus characteristic >>>					
N	K	Xl	Yl	Xr	Yr
Total	Z = -3.00	-99999	-99999	3	56
Total	Z = 0.00	-99999	-99999	19	56
Total	Z = 3.00	-99999	-99999	38	56
Total	Ka	0	0	5	0
Total	Kb	0	0	6	0
Total	Kc	0	0	0	0

Mode 4 B-Scope

<<< AA defocus characteristic >>>					
N	K	Xl	Yl	Xr	Yr
Total	Z =-3.00	-99999	-99999	-10	67
Total	Z = 0.00	-99999	-99999	-10	62
Total	Z = 3.00	-99999	-99999	-10	59
Total	Ka	0	0	0	-1
Total	Kb	0	0	0	-1
Total	Kc	0	0	0	0

Mode 4 C-Scope

<<< AA defocus characteristic >>>					
N	K	Xl	Yl	Xr	Yr
Total	Z =-3.00	-99999	-99999	-7	56
Total	Z = 0.00	-99999	-99999	0	56
Total	Z = 3.00	-99999	-99999	10	56
Total	Ka	0	0	2	0
Total	Kb	0	0	3	0
Total	Kc	0	0	0	0