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腾戈智慧半导体科技

Top provider of Web-native EDA for  
semiconductor yield improvement

<http://itanggo.com>



# PAT

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Email: [enquiry@itanggo.com](mailto:enquiry@itanggo.com)  
<https://itanggo.com>

# PAT

## GPAT -- Spatial Correlation

- 1.GDBC (Good Die in a Bad Cluster)
  - Type A(4)/Type B(8)
  - By User Define
  - Cut Wafer Edge N Rings
- 2.Stack/Reticle (by Wafer/Lot)

## PPAT -- Statistical outliers

- 1.AEC Standard
- 2.User Define

# GPAT-GDBC Rule Type A/B

A1		If one neighbor Die in cross shape Fail, it Fail!
A2		If two neighbor Dies in cross shape Fail, it Fail!
A3		If three neighbor Dies in cross shape Fail, it Fail!
A4		If four neighbor Dies in cross shape Fail, it Fail!
B1		If any 1 neighbor Dies in 9-Grids Fail, it Fail!
B2		If any 2 neighbor Dies in 9-Grids Fail, it Fail!
B3		If any 3 neighbor Dies in 9-Grids Fail, it Fail!
B4		If any 4 neighbor Dies in 9-Grids Fail, it Fail!
B5		If any 5 neighbor Dies in 9-Grids Fail, it Fail!
B6		If any 6 neighbor Dies in 9-Grids Fail, it Fail!
B7		If any 7 neighbor Dies in 9-Grids Fail, it Fail!
B8		If any 8 neighbor Dies in 9-Grids Fail, it Fail!

# GDBC- by User Define Rule

Input m value (m x m)	<input type="text"/> <input type="text"/>	<input type="button" value="Init Rule"/>	Comment
No	Limit		
9	1		<b>NO:</b> <ul style="list-style-type: none"><li>• 9 means there exist 9 dies in 3x3 block</li><li>• 8 means there exist 8 dies in 3x3 block</li><li>• 7 means there exist 7 dies in 3x3 block ....</li></ul>
8	1		<b>Limit:</b> <ul style="list-style-type: none"><li>• If 2 , Means if Fail Dies over or equal 2 , then the block will be set to Fail Die</li><li>• <b>If 0 , no checking</b></li></ul>
7	1		
6	1		
5	1		
4	1		
3	1		
2	1	<input checked="" type="radio"/> Block Check <input type="radio"/> Center Target Die Check <input type="button" value="Update New Rule"/>	<b>Check Type:</b> <ul style="list-style-type: none"><li>• Block Check: Check By Block</li><li>• Center Target Die: Check with Center Target Die View</li></ul>

# GDBC: Cut Edge Ring

1.

P.5

LotID : [REDACTED]  
Vdr.Lot : [REDACTED]  
Customer : [REDACTED]  
Product : [REDACTED] K  
OpName : [REDACTED]  
LotYield : [REDACTED]

Include PPAT Check

Risk Type:  
 A.Profile: A1

Empty Die is  Fail  Pass

Surround Die's Type  
 Fail Bin by Bin Define  
 User Define Fail Bins  
(1)BIN1 (P)  
(2)BIN2 (F)  
(3)BIN3 (F)  
(4)BIN4 (F)  
(5)BIN5 (F)  
(6)BIN6 (F)  
(7)BIN7 (F)  
(8)BIN8 (F)

B.Wafer Edge:  Rings

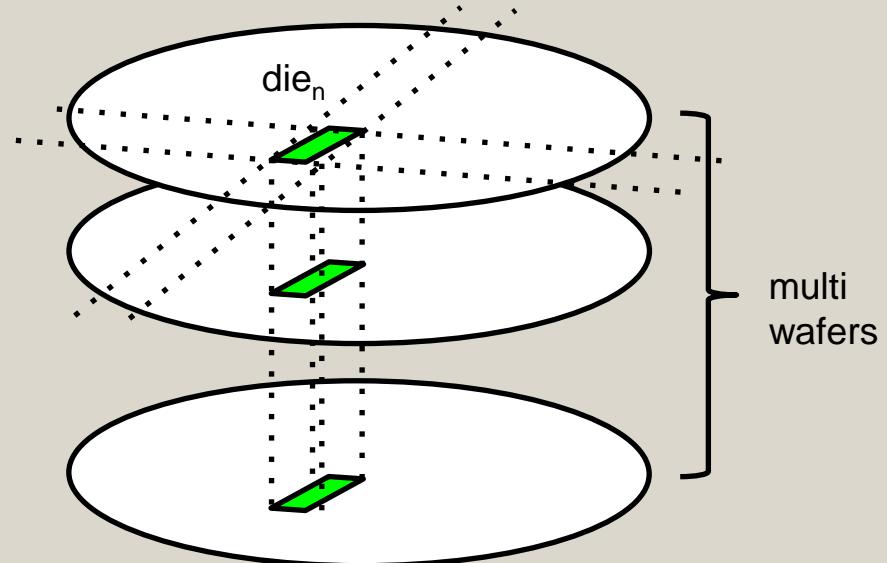
GDBC GPAT Code: 10

Process GDBC GPAT

✓✗	No.	Wafer Id	Status	Yield
✓	1	[REDACTED]	1 AutoShip	99.36%
✓	2	[REDACTED]	2 AutoShip	99.35%
✓	3	[REDACTED]	3 AutoShip	99.36%
✓	4	[REDACTED]	4 Unknown	99.57%
✓	5	[REDACTED]	5 AutoShip	98.64%
✓	6	[REDACTED]	6 AutoShip	99.44%
✓	7	[REDACTED]	7 AutoShip	99.14%
✓	8	[REDACTED]	8 AutoShip	99.34%
✓	9	[REDACTED]	9 AutoShip	99.79%
✓	10	[REDACTED]	0 AutoShip	98.91%
✓	11	[REDACTED]	1 AutoShip	98.23%
✓	12	[REDACTED]	2 AutoShip	99.78%
✓	13	[REDACTED]	3 AutoShip	98.67%
✓	14	[REDACTED]	4 AutoShip	98.44%
✓	15	[REDACTED]	5 AutoShip	98.76%
✓	16	[REDACTED]	6 AutoShip	98.67%
✓	17	[REDACTED]	7 AutoShip	98.66%
✓	18	[REDACTED]	8 AutoShip	98.91%
✓	19	[REDACTED]	9 AutoShip	99.12%
✓	20	[REDACTED]	0 AutoShip	99.13%
✓	21	[REDACTED]	1 AutoShip	99.78%
✓	22	[REDACTED]	2 AutoShip	98.31%
✓	23	[REDACTED]	3 AutoShip	98.73%
✓	25	[REDACTED]	5 AutoShip	98.45%



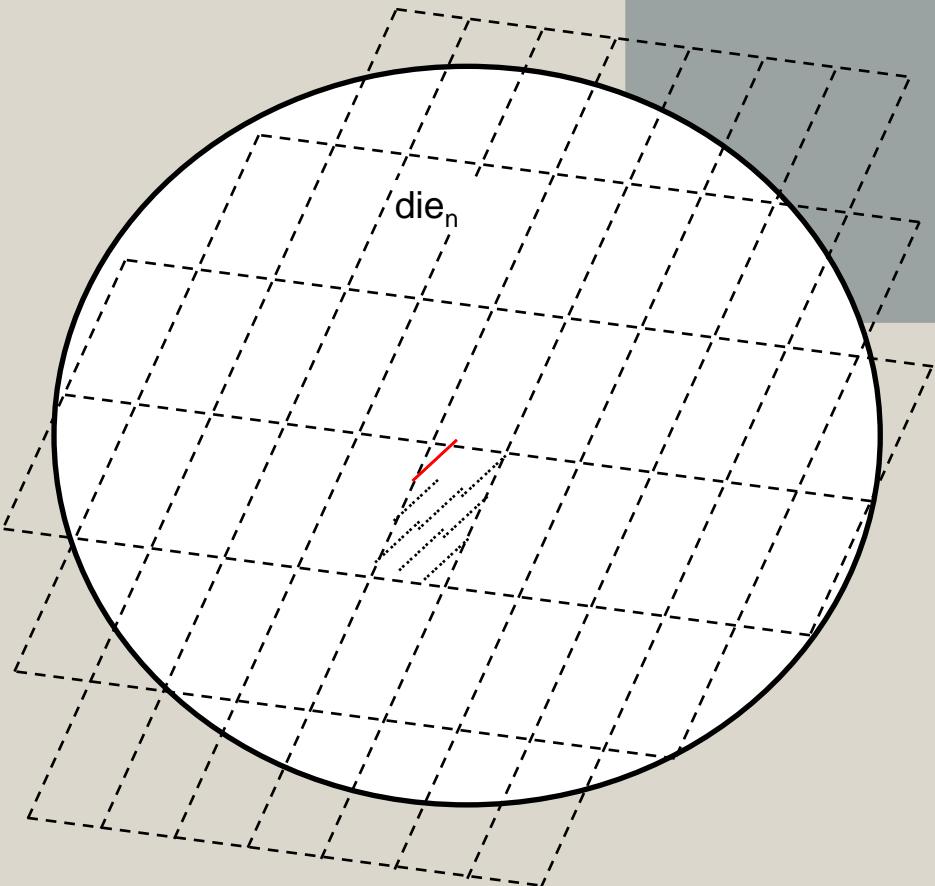
# STACK GPAT



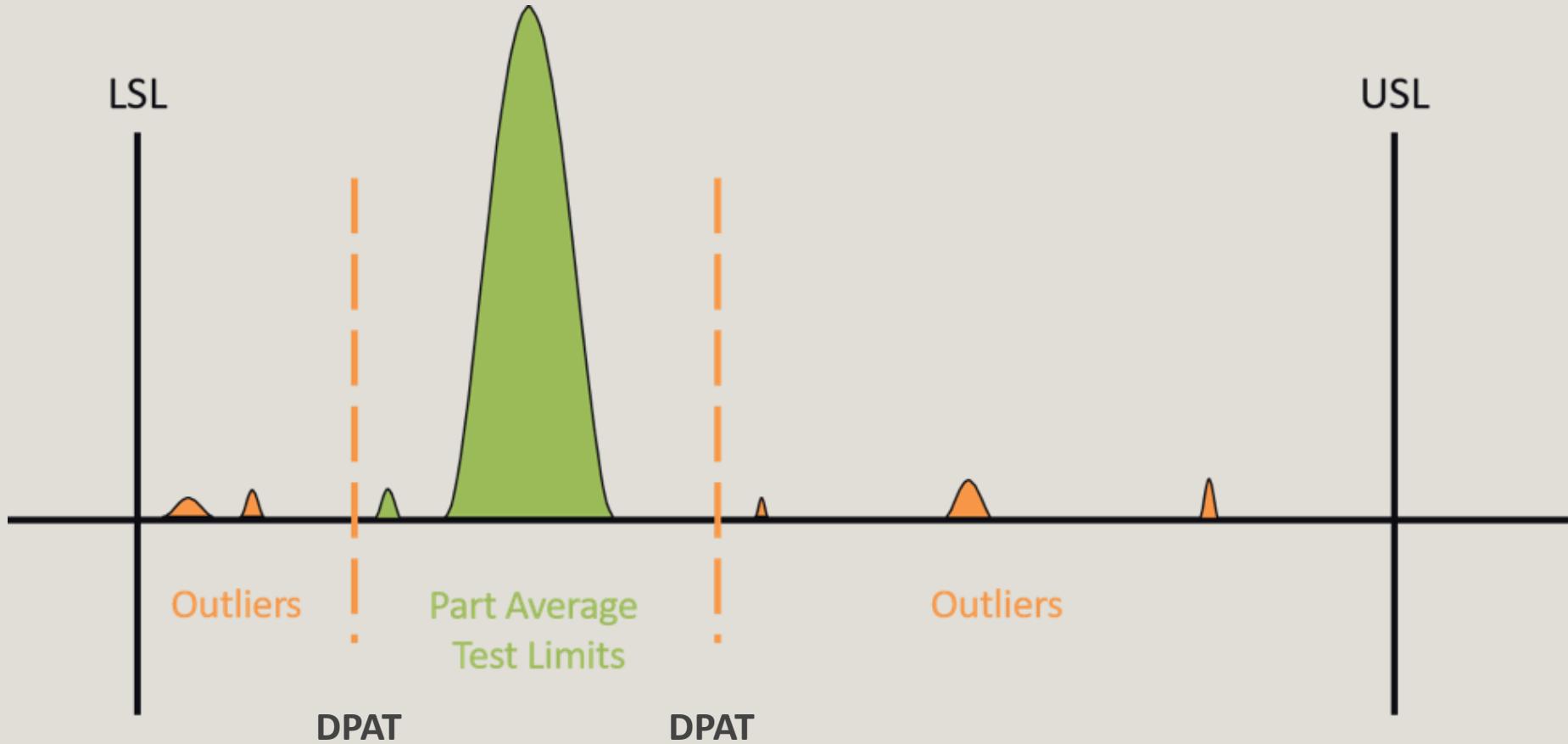
1. Calculate  $\text{stack\_yield}_n$  for  $\text{die}_n$  within selected multi wafers,  $n=1 \sim n_{\text{GDPW}}$  ( $n_{\text{GDPW}}=\text{gross die per wafer}$ ).
2. Calculate average value and standard deviation of  $\text{stack\_yield}$ .
3. Outlier screen-out spec: fixed value or  $\text{stack\_yield} < \text{average}-n * \sigma$  by setting.

# Photo/ Reticle GPAT

- For single/multi wafers.
- Calculate  $\text{photo\_yield}_n$  for  $\text{die}_n$  within selected single/multi wafers,  $n=1 \sim n_{\text{shot}}$  ( $n_{\text{shot}} = \text{die count per shot}$ ).
- Calculate average value and standard deviation of  $\text{photo\_yield}$ .
- Outlier screen-out spec: fixed value or  $\text{photo\_yield} < \text{average} - n * \sigma$



# PPAT



# PPAT

- According to AEC\_Q001\_Rev D
- Assumption on Gaussian distribution of the test parameters
- Static PAT limit (production,  $n > 6$ )  
 $\text{median} \pm 6 * [(\text{Q3} - \text{Q1}) / 1.35]$
- Dynamic PAT limit [passing Static PAT] median  $\pm 6 * \text{IQR} / 1.35$

# PPAT

Step  
1.



Welcome system system@INTRANET (CDC)  
Version : 6.1.6 Logout Old UI

Home

INLINE

PCM

BUMP

CP

Data Extract

Target Lot

Wafer Map

Report

Operation

ASSY

FT

SLT

Defect

Advanced

Analyzer

Monitor

Click method button for PAT

User Define

AEC Standard

Select method for PPAT

# PPAT

## (User define)

Step  
2.

Welcome system system@INTRANET (CDC)  
Version: 6.1.6 Logout Old UI

• Save define as profile for later use  
• Do PAT calculation

Profile : --LOAD PROFILE--

By Site:  No  Yes

For unequal n sigma, set Control Type as X and use L/H in n sigma. e.g. 3/5 for mean-3\*sigma, mean+5\*sigma  
csv file format: test\_no,spec\_lo,target,spec\_hi,nsigma,control\_type

	Test No	Name	SpecLo	Target	SpecHi	n sigma	Control T
<input type="checkbox"/> 1	500.1	(500.1)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A0 1	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 2	500.2	(500.2)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A1 2	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 3	500.3	(500.3)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A2 3	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 4	500.4	(500.4)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A3 4	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 5	500.5	(500.5)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A4 5	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 6	500.6	(500.6)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A5 6	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 7	500.7	(500.7)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A6 7	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 8	500.8	(500.8)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A7 8	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 9	500.9	(500.9)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B0 9	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 10	500.10	(500.10)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B1 10	-9.000000e-01	-.55	-2.000000e-01	3	B
<input type="checkbox"/> 11	500.11	(500.11)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B2 11	-9.000000e-01	-.55	-2.000000e-01	3	B
<input type="checkbox"/> 12	500.12	(500.12)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B3 12	-9.000000e-01	-.55	-2.000000e-01	3	B
<input type="checkbox"/> 13	500.13	(500.13)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B4 13	-9.000000e-01	-.55	-2.000000e-01	3	B
<input type="checkbox"/> 14	500.14	(500.14)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B5 14	-9.000000e-01	-.55	-2.000000e-01	3	B
<input type="checkbox"/> 15	500.15	(500.15)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B6 15	-9.000000e-01	-.55	-2.000000e-01	3	B
<input type="checkbox"/> 16	500.16	(500.16)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B7 16	-9.000000e-01	-.55	-2.000000e-01	3	B
<input checked="" type="checkbox"/> 19	500.19	(500.19)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0C2 19	-9.000000e-01	-.55	-2.000000e-01	3	B

➤ Select parameters for calculation  
➤ Define control method: sigma and one side or both side (B/U/L/Unequal)

# Step 3. (AEC Standard)

# PPAT



Welcome system system@INTRANET (CDC)  
Version: 6.1.6 Logout Old U

- [Home](#)
- [INLINE](#)
- [PCM](#)
- [BUMP](#)
- [CP](#)

- [Data Extract](#)
- [Target Lot](#)
- [Wafer Map](#)
- [Report](#)
- [Operation](#)
- [ASSY](#)
- [FT](#)
- [SLT](#)
- [Defect](#)
- [Advanced](#)
- [Analyzer](#)
- [Monitor](#)
- [Dashboard](#)
- [Batch](#)
- [Basic Data](#)
- [Document](#)
- [ChangeLog](#)
- [FAQ](#)
- [Workspace](#)

Profile : **--LOAD PROFILE--** Save Profile Save and Register Profile Update Profile Cal Export profile Import Csv

By Site:  No  Yes

For unequal n sigma, set Control Type as **X** and use **L/H** in n sigma. e.g. 3/5 for mean-3\*sigma, mean+5\*sigma

csv file format: test\_no,spec\_lo,target,spec\_hi,nsigma,control\_type

Select parameters for calculation

Keyin Statistic limits(default use spec)

P.13

	Test No	Name	SpecLo	Target	SpecHi	StaticLo	StaticHi
<input checked="" type="checkbox"/>	500.1	(500.1)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A0 1	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.2	(500.2)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A1 2	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.3	(500.3)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A2 3	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.4	(500.4)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A3 4	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.5	(500.5)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A4 5	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.6	(500.6)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A5 6	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.7	(500.7)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A6 7	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.8	(500.8)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0A7 8	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.9	(500.9)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B0 9	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.10	(500.10)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B1 10					
<input type="checkbox"/>	500.11	(500.11)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B2 11					
<input type="checkbox"/>	500.12	(500.12)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B3 12	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.13	(500.13)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B4 13	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.14	(500.14)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B5 14	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.15	(500.15)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B6 15	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.16	(500.16)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0B7 16	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.17	(500.17)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0C0 17	-9.000000e-01	-.55	-2.000000e-01		
<input type="checkbox"/>	500.18	(500.18)OS_VSS_PMU:OS_PMU_VSS[1]_GPIO0C1 18	-9.000000e-01	-.55	-2.000000e-01		
		U_VSS[1]_GPIO0C2 19	-9.000000e-01	-.55	-2.000000e-01		
		U_VSS[1]_GPIO0C3 20	-9.000000e-01	-.55	-2.000000e-01		

# PPAT

Step  
4.

VM file for insert DB

<input checked="" type="checkbox"/> <input type="checkbox"/>	TestNo	Parameter	Count(All/data/NULL)	DynamicLow	DynamicHigh	Out
<input type="checkbox"/>	10000	p2pshorts_POS/FUNC////PRE	(3470/3470/0)	-1	-1	0
<input type="checkbox"/>	10005	p2pshorts_NEG/FUNC////PRE	(3470/3470/0)	-1	-1	0
<input checked="" type="checkbox"/>	14520	Shorts/PRE////vdd_aon_pll1	(3470/3470/0)	3.131E-07	3.591E-06	<a href="#">13</a>
<input checked="" type="checkbox"/>	14545	Shorts/PRE////vdd_dll_pll	(3470/3470/0)	7.351E-05	1.170E-04	<a href="#">37</a>
<input checked="" type="checkbox"/>	14580	Shorts/PRE////vdd_sof_pll2	(3470/3470/0)	5.038E-07	4.119E-06	<a href="#">11</a>
<input checked="" type="checkbox"/>	14585	Shorts/PRE////vddaon_in	(3470/3470/0)	6.245E-05	1.141E-04	<a href="#">32</a>
<input checked="" type="checkbox"/>	14590	Shorts/PRE////vddhv	(3470/3470/0)	-2.323E-06	1.321E-06	<a href="#">8</a>
<input checked="" type="checkbox"/>	14595	Shorts/PRE////vddio_aon_gpio	(3470/3470/0)	-2.138E-06	1.301E-06	<a href="#">13</a>
<input checked="" type="checkbox"/>	14600	Shorts/PRE////vddio_gpio	(3470/3470/0)	-1.980E-06	8.560E-07	<a href="#">12</a>
<input checked="" type="checkbox"/>	14605	Shorts/PRE////vddio_in	(3470/3470/0)	1.765E-06	4.058E-06	<a href="#">3</a>
<input checked="" type="checkbox"/>	14610	Shorts/PRE////vddiq2	(3470/3470/0)	7.832E-05	1.414E-04	<a href="#">34</a>
<input checked="" type="checkbox"/>	14615	Shorts/PRE////vddsdpf_in	(3470/3470/0)	4.520E-04	4.528E-04	<a href="#">43</a>

Download as csv file

Click for detail out report

# (Detail report)

X	Y	Value	SpecLow	SpecHigh	DynamicLow	DynamicHigh	Q1	Median	Q3	Out Criteria
2	37	8.10629e-08	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Below Dynamic Low
18	5	-2.52726e-07	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Below Dynamic Low
19	50	1.97889e-07	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Below Dynamic Low
29	14	2.78952e-07	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Below Dynamic Low
30	28	3.75274e-06	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Above Dynamic High
32	32	3.593e-06	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Above Dynamic High
43	0	2.12194e-07	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Below Dynamic Low
57	8	3.86718e-06	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Above Dynamic High
58	8	3.6073e-06	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Above Dynamic High
68	50	2.69415e-07	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Below Dynamic Low
82	41	2.24115e-07	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Below Dynamic Low
83	41	-1.90736e-08	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Below Dynamic Low
87	22	-2.47957e-07	-1e-05	3e-05	3.13063776542046e-07	3.59115183054729e-06	1.58073e-06	1.95982e-06	2.32221e-06	Below Dynamic Low

# PPAT

Step  
6.

PATXY-1.csv

X	Y	(TestNo)	Para	Value	SpecLow	SpecHigh	DynamicLow	DynamicHigh	Out Criteria
0	76	(1040) IDD.0	0.00400948	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
0	76	(1050) IIIH.0'	0.632867	-0.001	0.001	NA	NA	Above Spec High	
0	78	(1050) IIIH.0'	0.633075	-0.001	0.001	NA	NA	Above Spec High	
0	79	(1030) pwr_sl	0.00025829	-0.001	0.01	0.00026499	0.00080223	Below Dynamic Low	
0	79	(1040) IDD.0	0.00402265	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
0	79	(1050) IIIH.0'	0.625819	-0.001	0.001	NA	NA	Above Spec High	
0	82	(1040) IDD.0	0.0034966	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
0	82	(1050) IIIH.0'	0.632827	-0.001	0.001	NA	NA	Above Spec High	
0	83	(1040) IDD.0	0.00372062	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
0	83	(1050) IIIH.0'	0.627504	-0.001	0.001	NA	NA	Above Spec High	
0	84	(1050) IIIH.0'	0.627594	-0.001	0.001	NA	NA	Above Spec High	
0	85	(1030) pwr_sl	0.00024463	-0.001	0.01	0.00026499	0.00080223	Below Dynamic Low	
0	85	(1050) IIIH.0'	0.628846	-0.001	0.001	NA	NA	Above Spec High	
1	67	(1040) IDD.0	0.00393315	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
1	67	(1050) IIIH.0'	0.631927	-0.001	0.001	NA	NA	Above Spec High	
1	69	(1050) IIIH.0'	0.630516	-0.001	0.001	NA	NA	Above Spec High	
1	72	(1050) IIIH.0'	0.630322	-0.001	0.001	NA	NA	Above Spec High	
1	73	(1050) IIIH.0'	0.629383	-0.001	0.001	NA	NA	Above Spec High	
1	74	(1050) IIIH.0'	0.632917	-0.001	0.001	NA	NA	Above Spec High	
1	75	(1050) IIIH.0'	0.632604	-0.001	0.001	NA	NA	Above Spec High	
1	76	(1050) IIIH.0'	0.631301	-0.001	0.001	NA	NA	Above Spec High	
1	78	(1050) IIIH.0'	0.629317	-0.001	0.001	NA	NA	Above Spec High	
1	79	(1050) IIIH.0'	0.624253	-0.001	0.001	NA	NA	Above Spec High	
1	80	(1050) IIIH.0'	0.630049	-0.001	0.001	NA	NA	Above Spec High	
1	81	(1050) IIIH.0'	0.628131	-0.001	0.001	NA	NA	Above Spec High	
1	82	(1050) IIIH.0'	0.632514	-0.001	0.001	NA	NA	Above Spec High	
1	83	(1040) IDD.0	0.00402899	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
1	83	(1050) IIIH.0'	0.636362	-0.001	0.001	NA	NA	Above Spec High	
1	84	(1050) IIIH.0'	0.631038	-0.001	0.001	NA	NA	Above Spec High	
1	85	(1040) IDD.0	0.00395353	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
1	85	(1050) IIIH.0'	0.632553	-0.001	0.001	NA	NA	Above Spec High	
1	86	(1050) IIIH.0'	0.631301	-0.001	0.001	NA	NA	Above Spec High	
1	88	(1050) IIIH.0'	0.629866	-0.001	0.001	NA	NA	Above Spec High	
1	89	(1030) pwr_sl	0.00026339	-0.001	0.01	0.00026499	0.00080223	Below Dynamic Low	
1	89	(1040) IDD.0	0.00355338	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
1	89	(1050) IIIH.0'	0.632395	-0.001	0.001	NA	NA	Above Spec High	
1	90	(1050) IIIH.0'	0.631614	-0.001	0.001	NA	NA	Above Spec High	
1	91	(1030) pwr_sl	0.00025603	-0.001	0.01	0.00026499	0.00080223	Below Dynamic Low	
1	91	(1050) IIIH.0'	0.629421	-0.001	0.001	NA	NA	Above Spec High	
1	92	(1030) pwr_sl	0.00025338	-0.001	0.01	0.00026499	0.00080223	Below Dynamic Low	
1	92	(1040) IDD.0	0.0034386	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
1	92	(1050) IIIH.0'	0.626252	-0.001	0.001	NA	NA	Above Spec High	
1	93	(1030) pwr_sl	0.00024829	-0.001	0.01	0.00026499	0.00080223	Below Dynamic Low	
1	93	(1040) IDD.0	0.00381227	0.001	0.02	0.00406541	0.0078404	Below Dynamic Low	
1	93	(1050) IIIH.0'	0.635645	-0.001	0.001	NA	NA	Above Spec High	
2	62	(1050) IIIH.0'	0.631262	-0.001	0.001	NA	NA	Above Spec High	
2	63	(1050) IIIH.0'	0.631575	-0.001	0.001	NA	NA	Above Spec High	
2	64	(1050) IIIH.0'	0.631665	-0.001	0.001	NA	NA	Above Spec High	

(download file)

## Step 7.

CP→Operation→Visual Monitor(VM) →  
Probe Mark V2

# PPAT

Welcome system system@INTRANET (CD)  
Version: 6.1.6 Logout Old

Lot Number : HHJMN.00 WaferNo : 5 Operator :

1 2 3 4 5 6

Save Report Print Undo

Map Size: 719

CoordMargin: 1

DefectCode: (1) Scratch

Action: Mark:  Erase:

Type: Single:  Circle:  Rectangle:

Coord.: X: Y:

IQC(0) CP(0) OQC(0) RISKDIE(0) SGPAT(0) PGPAT(0) EDGE(0) DIEXY(0) DTLOG(0) PAT33(0) PAT1(61)

PAT2(0) WT(0) SFR(0) RSFR(0) MERGE(61)

Select PAT red chips as PAT fail

The screenshot shows a TANGO AI software interface for wafer monitoring. The main area displays a wafer map with a grid of squares. Red squares indicate 'PAT fail' defects. A red box highlights a specific cluster of red squares. A callout bubble with the text 'Select PAT red chips as PAT fail' points to the 'PAT1(61)' tab at the top right of the defect summary bar. The defect summary bar also includes tabs for other categories like IQC(0), CP(0), OQC(0), RISKDIE(0), SGPAT(0), PGPAT(0), EDGE(0), DIEXY(0), DTLOG(0), and PAT33(0). On the left, a sidebar lists various operational and monitoring modules such as Home, INLINE, PCM, BUMP, CP, Data Extract, Target Lot, Wafer Map, Report, Operation, ASSY, FT, SLT, Defect, Advanced, Analyzer, Monitor, Dashboard, Batch, Basic Data, Document, ChangeLog, FAQ, and Workspace.

联系  
**Tango-AI**



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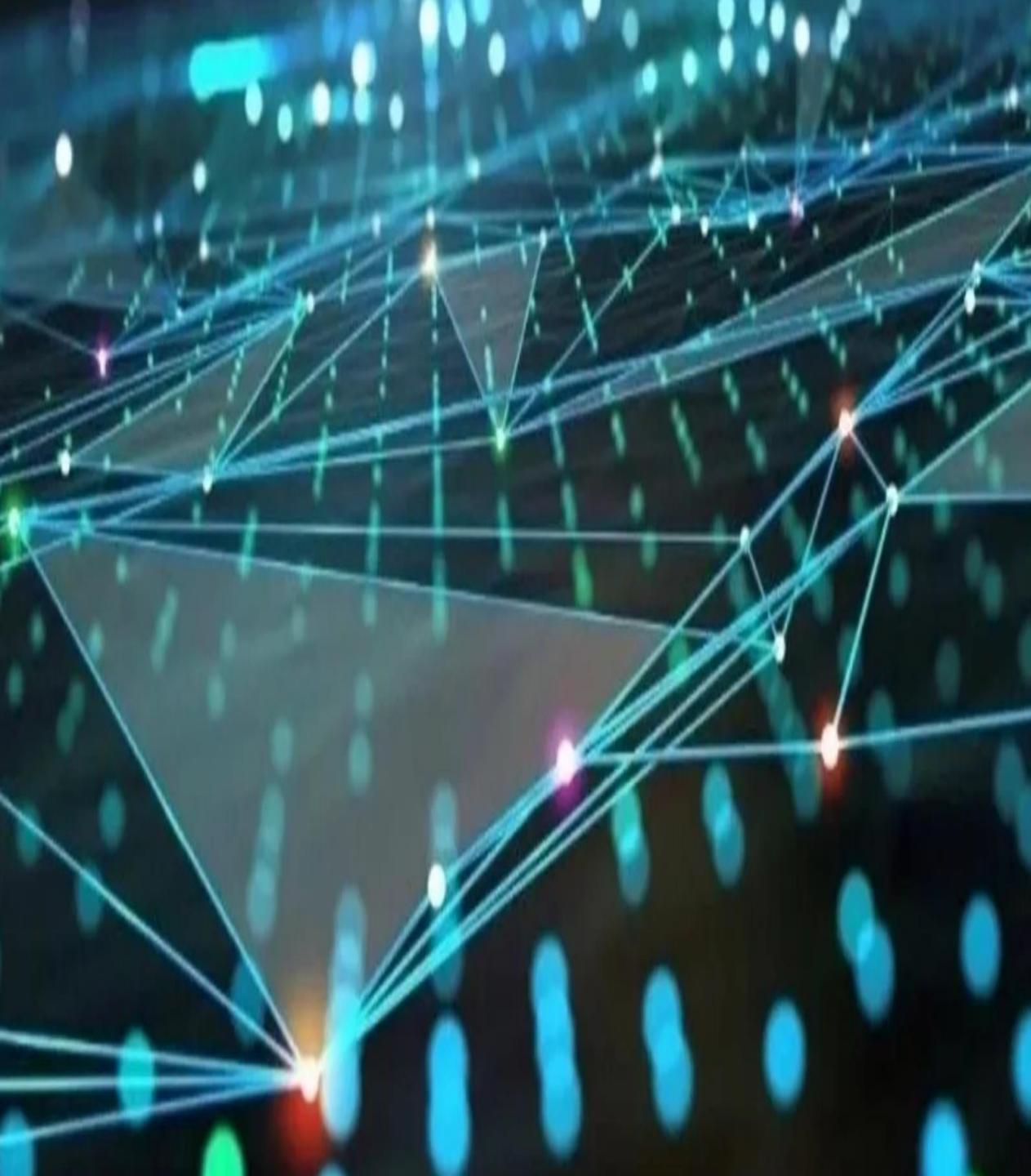
+86-18516070025





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# Thank You



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