

APPLICANT : SAMSUNG ELECTRONICS Co., Ltd.

ADDRESS: 1, Samsungjeonja-ro,

Hwaseong-si, Gyeonggi-do, Korea

PAGE: 1 of 5

DATE: Feb. 02, 2023

REPORT NO. RT23R-S0559-005-E2

SAMPLE DESCRIPTION : The following submitted sample(s) said to be:-

NAME/TYPE OF PRODUCT : 12inch CIS wafer

NAME OF MATERIAL : Wafer (Patterned)

SAMPLE ID NO. : RT23R-S0559-005

MANUFACTURER/VENDOR : SAMSUNG ELECTRONICS Co., Ltd.
NAME OF BUYER : SAMSUNG ELECTRONICS Co., Ltd.

SAMPLE RECEIVED : Jan. 26, 2023

TESTING DATE : Jan. 26, 2023 ~ Feb. 02, 2023

TEST METHOD(S) : Please see the following page(s).
TEST RESULT(S) : Please see the following page(s).

Approved by,

Authorized by,

Authenticity

Jade Jang / Lab. Technical Manager

Bo Park / Lab. General Manager

Intertek Testing Services Korea Ltd.



^{*} Note 1 : The test results presented in this report refer only to the object tested.

^{*} Note 2: This report shall not be reproduced except in full without the written approval of the testing laboratory.



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REPORT NO. RT23R-S0559-005-E2 DATE: Feb. 02, 2023

SAMPLE ID NO. : RT23R-S0559-005 SAMPLE DESCRIPTION : 12inch CIS wafer

TEST ITEM	UNIT	TEST METHOD	MDL	RESULT
Beryllium (Be)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.
Cobalt (Co)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.
Indium (In)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.
Nickel (Ni)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	18
Phosphorus (P)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.
Antimony (Sb)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.
Tin (Sn)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.
Tetrabromobisphenol-A (TBBP-A)	mg/kg	With reference to US EPA 3540C, by solvent extraction and determined by LC/MS/MS	5	N.D.
Medium-chain chlorinated paraffin (MCCP)	mg/kg	With reference to US EPA 3540C, by solvent extraction and determined by LC/MS/MS and/or GC/ECD	100	N.D.
N-Methyl-2-pyrrolidone (NMP)	mg/kg	With reference to US EPA 3550C, determined by GC/MS	5	N.D.

Tested by : Jooyeon Lee, Hayan Park

Notes: mg/kg = ppm = parts per million

< = Less than

N.D. = Not detected (<MDL)
MDL = Method detection limit

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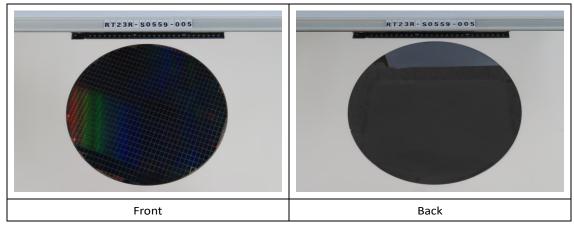


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REPORT NO. RT23R-S0559-005-E2 DATE: Feb. 02, 2023

SAMPLE ID NO. : RT23R-S0559-005 SAMPLE DESCRIPTION : 12inch CIS wafer

* View of sample;-



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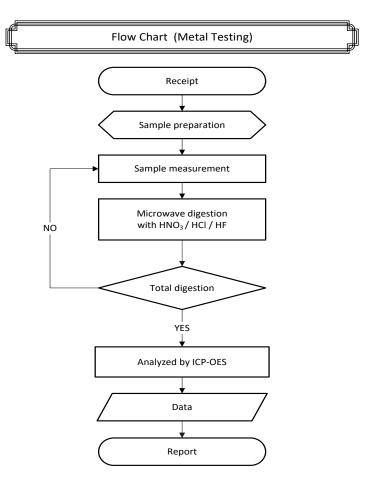


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REPORT NO. RT23R-S0559-005-E2

DATE: Feb. 02, 2023

SAMPLE ID NO. : RT23R-S0559-005 SAMPLE DESCRIPTION : 12inch CIS wafer



^{**} Remarks : The samples were dissolved totally by pre-conditioning method according to above flow chart.

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REPORT NO. RT23R-S0559-005-E2 DATE: Feb. 02, 2023

SAMPLE ID NO. : RT23R-S0559-005 SAMPLE DESCRIPTION : 12inch CIS wafer

Receipt
Sample preparation

Extraction

Concentration

Concentration

Analyzed by GC-ECD or GC-MS or LC/MS or LC/MS/MS

Data

***** End of Report *****

Report

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