



SNS EMC Laboratory Co., Ltd.

(#B09, #B11, Ojeon-dong), 19, Ojeonggongeop-gil, Uiwang-si, Gyeonggi-do, 16072 Korea

Tel: +82-31-526-2001 Fax: +82-31-455-2066 http://www.snsemc.co.kr Report No.: RoHS-N2009006 Page (1)/(31)

1. Client

Name : INB KOREA LTD.

o Address: 72, JOMARU-RO 411 BEON-GIL, BUCHEON-SI, GYEONGGI-DO, SOUTH KOREA

2. Manufacturer: INB KOREA LTD.

3. Product Name: Air Purifier

4. Model Name : HEXTIO, HX-100

5. Date of Test : Sep 21, 2020

6. Test Method Used: EN 50581:2012, IEC 62321-1:2013, IEC 62321-3-1:2013, EN 62321:2009

IEC 62321-8:2017

7. Test Results : Pass

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This laboratory is not accredited for the test results marked *.

Tested by **Technical Manager** Affirmation Name: Kyungman, Kwak Signature, Name: Sangmin, Lee

SNS EMC Laboratory



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Rohs Test Report

European Directive 2011/65/EU Evaluation of RoHS Requirements for Electrical and Electronic Equipment

Report Number....: RoHS-N2009006 Sep 21, 2020 Date of issue: Total number of pages..... 31 Pages INB KOREA LTD. Applicant name.....: 72, JOMARU-RO 411 BEON-GIL, BUCHEON-SI, GYEONGGI-DO, Address: SOUTH KOREA Manufacturer name: INB KOREALTD. Address: 72, JOMARU-RO 411 BEON-GIL, BUCHEON-SI, GYEONGGI-DO, SOUTH KOREA **Test specification:** Standard....:: EN 50581:2012, IEC 62321-1:2013, IEC 62321-3-1:2013, EN 62321:2009, IEC 62321-8:2017 Non-standard test method:: N/A SNS EMC Laboratory Co., Ltd. Testing Laboratory....: Address: (#B09, #B11, Ojeon-dong), 19, Ojeongongeop-gil, Uiwang-si, Gyeonggi-do, 16072, Korea Air Purifier Product name: Model name....: **HEXTIO, HX-100** List of Attachments (including a total number of pages in each attachment): Attachment 1 Attachment 2 Testing: Date of receipt of test item..... Sep 13, 2020

Date (s) of performance of tests Sep 14, 2020 ~ Sep 19, 2020



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Clause	Requirement + Test	Result - Remark	Verdict
1	RoHS Compliance based on test reports		
1.1	Review of component's test reports according to BOM		Р
1.1.1	Dose evaluated product is composed by components which is listed in BOM?	Checked	Р
1.1.2	Dose each components is complied with the requirement of employed directive or manufacturer declared limits?	Checked	Р
1.2	Review of verification test reports according sampling		Р
1.2.1	If it was performed the item 1.1, did sampling was performed in appropriate?	Refer to Attachment 3	Р
1.2.2	If it was not performed the item 1.1, did it was fully considered the materials of component and dose it was performed the sampling which is enough to represent the characteristics of population?		N/A
1.2.3	Is it complied with the requirements of employed directive or manufacturer declares limits for sample tested?		Р
1.3	Requirements of test report		Р
1.3.1	Is it included the information of manufacturer, sample, test lab or etc?	Refer to Attachment 2	Р
1.3.2	Is it clarly specified the test object as the port of components or product?		Р
1.3.3	Is it decribed the information of directive or standards of test methods?		Р
1.3.4	Is it decribed the results with accurately for interpretation, using or etc?		Р
1.3.5	Is it confirmed the validity of test equipment and information of calibration?		Р
1.4	Other information		
	Directive 2011/65/EU EN 50581:2012 IEC 62321-1:2013 IEC 62321-3-1:2013 EN 62474:2012 IEC 62321-8:2017 IEC/TR 62476:2010		



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Attachment 1 - Photographs





Front View



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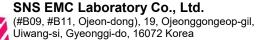
Attachment 1 - Photographs







Inner View



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Attachment 2 - Test method & Lab Information

1. General

- 1.1 Standard: EN 50581:2012, EN 62321-1:2013, EN 61321-3-1, IEC 62321-8:2017
- 1.2 Applied sampling criteria
 - Kind of components could be disassembled mechanically by using disassembly tools
 - High risk components

2. Laboratory information

2.1 Laboratory name: SNS EMC Laboratory Co., Ltd.

2.2 Address: (#B09, #B11, Ojeon-dong), 19, Ojeongongeop-gil, Uiwang-si, Gyeonggi-do, 16072,

Korea

2.3 Tel.: +82-31-526-2001 2.4 FAX: +82-31-455-2066

2.5 Facilities used

X-Ray Fluorescence Spectrometer (XRF)

- Manufacturer name : ISP Co., Ltd.

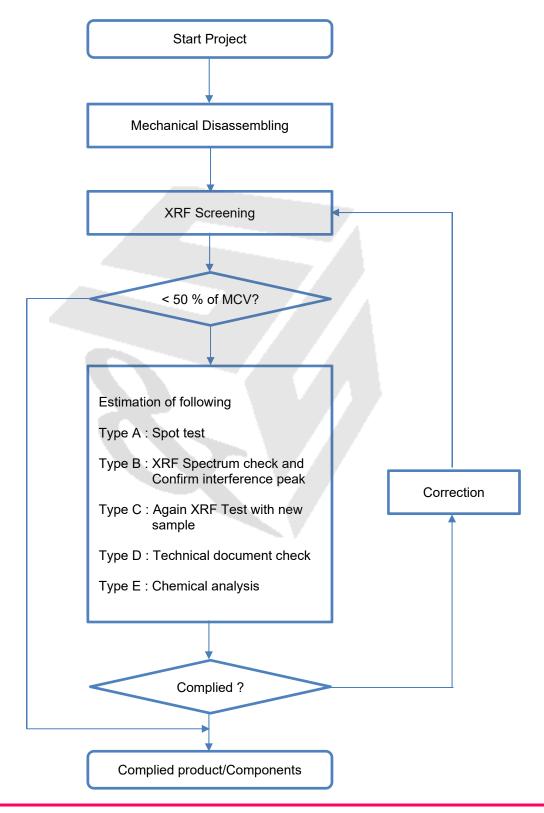
Model name : iEDX-100A

3. Product Remark

	Product name	Air Purifier
Specification	Model name	HEXTIO, HX-100
	Variant model name	HXW-100, HWB-100

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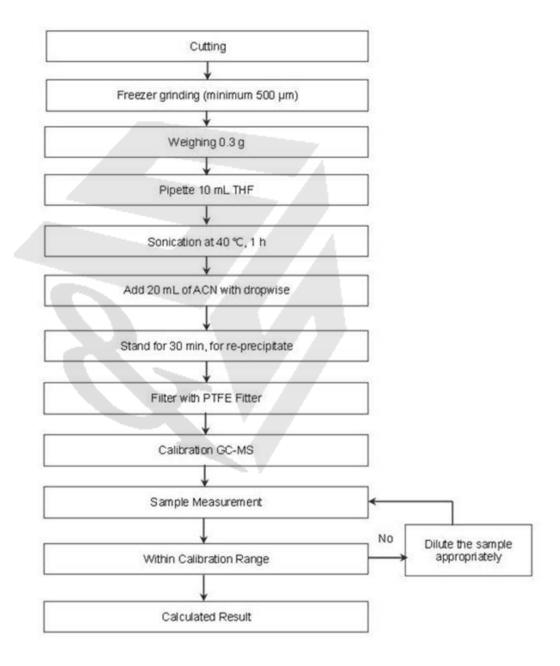
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Attachment 3 - Verification XRF Test Result



Flow Chart

Phthalates



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Attachment 3 - Verification XRF Test Result

No.	Part name	Supplier		XRF I	Data (m	Estimation	Result		
NO.	Part name	Supplier	Cb	Pb	Hg	Br	Cr	EStilliation	Result
1.0	Body CASE		0	0	0	0	0	N/A	Р
1.1	IN CASE		0	0	0	0	0	N/A	Р
1.2	TOP CASE		0	0	0	0	0	N/A	Р
1.3	TOP CASE		0	0	0	0	0	N/A	Р
1.4	Filter guide		0	0	0	0	0	N/A	Р
1.5	Filter guide		0	0	0	0	0	N/A	Р
1.6	Below case		0	0	0	0	0	N/A	Р
1.7	FAN		0	0	0	0	0	Type D	Р

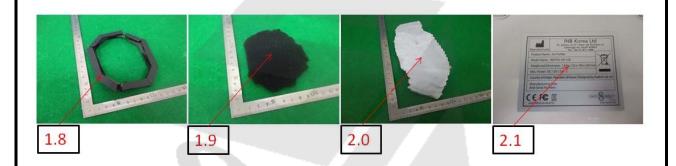




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No.	Part name	Supplier		XRF I	Data (n	Estimation	Result		
NO.	Part name	опррист	Cb	Pb	Hg	Br	Cr	LStillation	Result
1.8			0	0	0	0	0	N/A	Р
1.9	Air filter		0	0	0	0	0	N/A	Р
2.0			0	0	0	0	0	N/A	Р
2.1	label		0	0	0	0	0	N/A	Р

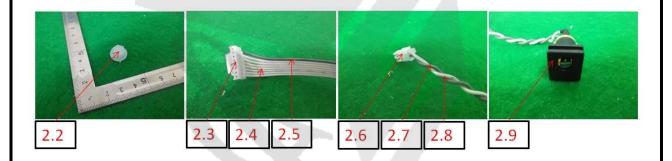




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No.	Part name	Supplier		XRF I	Data (m	ng/kg)		- Estimation	Result
NO.	Part name	Supplier	Cb	Pb	Hg	Br	Cr	EStilliation	
2.2	Rubber-1		0	0	0	0	0	N/A	Р
2.3			0	0	0	0	0	N/A	Р
2.4			0	0	0	0	0	N/A	Р
2.5	Cabla		0	0	0	0	0	N/A	Р
2.6	Cable		0	0	0	0	0	N/A	Р
2.7			0	0	0	0	0	N/A	Р
2.8			0	0	0	0	0	N/A	Р
2.9	DC Jack		0	0	0	0	0	N/A	Р



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No	Dort name	Complian		XRF I	Data (n	ng/kg)		Estimation	Result
No.	Part name	Supplier	Cb	Pb	Hg	Br	Cr	LStillation	Nesuit
3.0	DC Jack		0	0	0	0	0	N/A	Р
3.1	DC Jack		0	0	0	0	0	N/A	Р
3.2	Remote control holder		0	0	0	0	0	N/A	Р
3.3	Remote control case		0	0	0	0	0	N/A	Р
3.4			0	0	0	0	0	N/A	Р
3.5			0	0	0	0	0	N/A	Р
3.6	SCREW		0	0	0	0	0	N/A	Р
3.7		4	0	0	0	0	0	N/A	Р
3.8			0	0	0	0	0	N/A	Р
3.9	Rubber-2		0	0	0	0	0	N/A	Р



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Na	Dout name	Complian		XRF I	Data (m	ng/kg)		Fatimatian	Result
No.	Part name	Supplier	Cb	Pb	Hg	Br	Cr	Estimation	
4.0	Foot		0	0	0	0	0	N/A	Р
4.1	Adapter		0	0	0	0	0	N/A	Р
4.2			0	0	0	0	0	N/A	Р
4.3	40		0	0	0	0	0	N/A	Р
4.4			0	0	0	0	0	N/A	Р
4.5	AC socket		0	0	0	0	0	N/A	Р
4.6			0	0	0	0	0	N/A	Р
4.7			0	0	0	0	0	N/A	Р
4.8	LAMBCASE		0	0	0	0	0	N/A	Р
4.9	LAMP CASE		0	0	0	0	0	N/A	Р
5.0	LAMP		0	0	0	_ O	0	Type D	Р

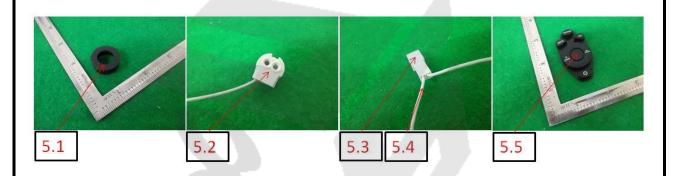


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Attachment 3 - Verification XRF Test Result

No.	Port name	Supplier		XRF I	Data (m	Estimation	Result		
NO.	Part name	Supplier	Cb	Pb	Hg	Br	Cr	Littination	Result
5.1	Rubber-3		0	0	0	0	0	N/A	Р
5.2			0	0	0	0	0	N/A	Р
5.3	Lamp socket		0	0	0	0	0	N/A	Р
5.4			0	0	0	0	0	N/A	Р
5.5	Remote control knob		0	0	0	0	0	N/A	Р



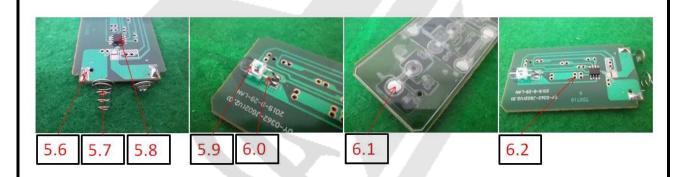


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Attachment 3 - Verification XRF Test Result

No.	Part name	Cumplion		XRF I	Data (m		Estimation	Result	
NO.	Part name	Supplier	Cb	Pb	Hg	Br	Cr	EStilliation	Result
5.6	Remote control board lead		0	0	0	0	0	N/A	Р
5.7	Battery Terminal		0	0	0	0	0	N/A	Р
5.8	IC		0	0	0	0	0	Type D	Р
5.9	Infrared LED		0	0	0	0	0	N/A	Р
6.0	IIIIIaled LED		0	0	0	0	0	N/A	Р
6.1	TACT S/W-1		0	0	0	0	0	N/A	Р
6.2	Remote control board pcb		0	0	0	0	0	N/A	Р

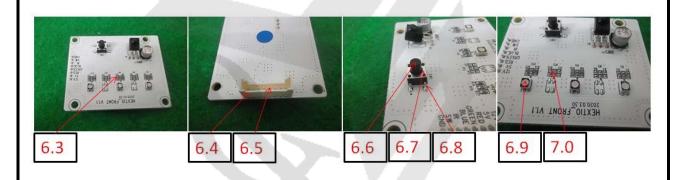




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No.	Part name	Cumpling		XRF I	Data (m		Estimation	Result	
NO.	Part name	Supplier	Cb	Pb	Hg	Br	Cr	EStilliation	Result
6.3	LED board		0	0	0	0	0	Type D	Р
6.4	Connector		0	0	0	0	0	N/A	Р
6.5	Connector		0	0	0	0	0	N/A	Р
6.6			0	0	0	0	0	N/A	Р
6.7	TACT S/W-2		0	0	0	0	0	N/A	Р
6.8			0	0	0	0	0	N/A	Р
6.9	Chip LED		0	0	0	0	0	Type D	Р
7.0	Chip resistance		0	0	0	0	0	Type D	Р

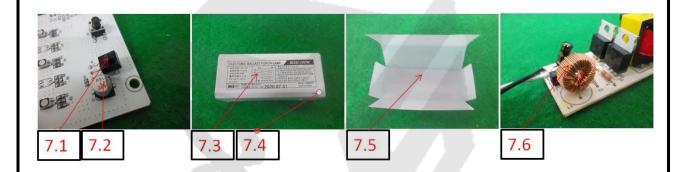


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Attachment 3 - Verification XRF Test Result

No.	Part name	Supplier		XRF I	Data (m	Estimation	Result		
NO.	Part name	Supplier	Cb	Pb	Hg	Br	Cr	EStilliation	Nesuit
7.1	Sensor		0	0	0	0	0	Type D	Р
7.2	E-CAP		0	0	0	0	0	Type D	Р
7.3	Ballast Label		0	0	0	0	0	N/A	Р
7.4	Ballast Cace		0	0	0	0	0	N/A	Р
7.5	Insulation sheet		0	0	0	0	0	N/A	Р
7.6	COIL		0	0	0	0	0	N/A	Р

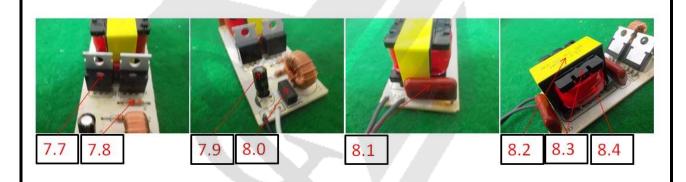


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Attachment 3 - Verification XRF Test Result

No.	Part name	Supplier		XRF I	Data (m		Estimation	Result	
NO.	Part name	Supplier	Cb	Pb	Hg	Br	Cr	EStilliation	Result
7.7	FET		0	0	0	0	0	N/A	Р
7.8	resistance		0	0	0	0	0	Type D	Р
7.9	condenser		0	0	0	0	0	Type D	Р
8.0	fuse		0	0	0	0	0	Type D	Р
8.1	Mylar condenser		0	0	0	0	0	N/A	Р
8.2			0	0	0	0	0	N/A	Р
8.3	Trans		0	0	0	0	0	N/A	Р
8.4			0	0	0	0	0	N/A	Р



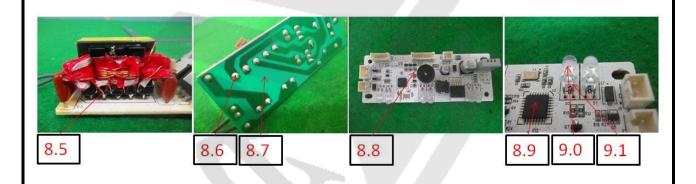


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Attachment 3 - Verification XRF Test Result

No.	Part name	XRF Data (mg/kg)				Estimation	Result			
NO.	Partifiante	Part name	e Supplier	Cb	Pb	Hg	Br	Cr	EStilliation	Result
8.5	Trans		0	0	0	0	0	N/A	Р	
8.6	Power board lead		0	0	0	0	0	N/A	Р	
8.7	Power board pcb		0	0	0	0	0	N/A	Р	
8.8	Control board		0	0	0	0	0	Type D	Р	
8.9	IC		0	0	0	0	0	Type D	Р	
9.0	LED		0	0	0	0	0	N/A	Р	
9.1	LED		0	0	0	0	0	N/A	Р	



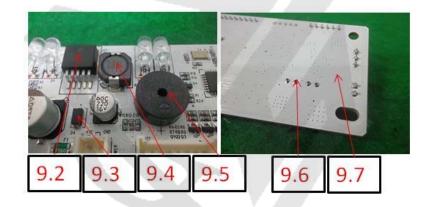


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Attachment 3 - Verification XRF Test Result

No.	Part name	Supplier	XRF Data (mg/kg)				Estimation	Result	
NO.		Supplier	Cb	Pb	Hg	Br	Cr	Estillation	Result
9.2	IC-2		0	0	0	0	0	Type D	Р
9.3	tantalum		0	0	0	0	0	Type D	Р
9.4	COIL		0	0	0	0	0	Type D	Р
9.5	Booz		0	0	0	0	0	Type D	Р
9.6	Control board lead		0	0	0	0	0	N/A	Р
9.7	Control board pcb		0	0	0	0	0	N/A	Р





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Attachment 3 - Verification XRF Test Result

Phthalates, Unit: mg/kg

(EU Directive 2011/65/EU,2015/863/EU)

Test Conducted	Test Conducted Test Method		Test Results
butyl benzyl phthalate(BBP)	IFC 60304 9 : 2047	50	N.D.
di-n-butyl phthalate(DBP)	IEC 62321-8 : 2017 (solvent extraction and determined by GC-MS)	50	N.D.
di(ethylhexyl) phthalate(DEHP)	(SOLVENIC SYLLEGISTIC AND GOLDING)		N.D.
diisobutyl ohthalate(DIBP)		50	N.D.

Tested Sample List						
Sample No.	Sample Description	Item No.	Material			
1	Air Purifier	Remote	N/S			
		control case				

Photo of the submitted sample(s)



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Attachment 3 - Verification XRF Test Result

Phthalates, Unit: mg/kg

(EU Directive 2011/65/EU,2015/863/EU)

Test Conducted	Test Method	RL	Test Results
butyl benzyl		50	N.D.
phthalate(BBP)	IEC 62321-8 : 2017		
di-n-butyl phthalate(DBP)	(solvent extraction and determined by GC-MS)	50	N.D.
di(ethylhexyl)		50	N.D.
phthalate(DEHP)			
diisobutyl ohthalate(DIBP)		50	N.D.

Tested Sample List						
Sample No.	Sample Description	Item No.	Material			
2	Air Purifier	AC socket	N/S			

Photo of the submitted sample(s)



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Attachment 3 - Verification XRF Test Result

Phthalates, Unit: mg/kg

(EU Directive 2011/65/EU,2015/863/EU)

Test Conducted	Test Method	RL	Test Results
butyl benzyl		50	N.D.
phthalate(BBP)	IEC 62321-8 : 2017	30	N.D.
di-n-butyl phthalate(DBP)	(solvent extraction and determined by GC-MS)	50	N.D.
di(ethylhexyl) phthalate(DEHP)		50	N.D.
diisobutyl ohthalate(DIBP)		50	N.D.

Tested Sample List						
Sample No.	Sample Description	Item No.	Material			
3	Air Purifier	Insulation sheet	N/S			

Photo of the submitted sample(s)





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Attachment 3 - Verification XRF Test Result

Phthalates, Unit: mg/kg

(EU Directive 2011/65/EU,2015/863/EU)

<u>' ' '</u>	,				
Test Conducted	Test Method	RL	Test Results		
butyl benzyl		50	N.D.		
phthalate(BBP)	IEC 62221 0 : 2017				
di-n-butyl phthalate(DBP)	IEC 62321-8 : 2017 (solvent extraction and determined by GC-MS)	50	N.D.		
di(ethylhexyl)		50	N.D.		
phthalate(DEHP)					
diisobutyl ohthalate(DIBP)		50	N.D.		

Tested Sample List						
Sample No.	Sample Description	Item No.	Material			
4	Air Purifier	Body CASE	N/S			

Photo of the submitted sample(s)



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Attachment 3 - Verification XRF Test Result

Phthalates, Unit: mg/kg

(EU Directive 2011/65/EU,2015/863/EU)

(======================================					
Test Conducted	Test Method	RL	Test Results		
butyl benzyl		50	N.D.		
phthalate(BBP)	IEC 62321-8 : 2017 (solvent extraction and determined by GC-MS)				
di-n-butyl phthalate(DBP)		50	N.D.		
di(ethylhexyl)		50	N.D.		
phthalate(DEHP)					
diisobutyl ohthalate(DIBP)		50	N.D.		

Tested Sample List						
Sample No.	Sample Description	Item No.	Material			
5	Air Purifier	Cable	N/S			

Photo of the submitted sample(s)



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Attachment 3 - Verification XRF Test Result

Phthalates, Unit: mg/kg

(EU Directive 2011/65/EU,2015/863/EU)

Test Conducted	Test Method	RL	Test Results
butyl benzyl		50	N.D.
phthalate(BBP) di-n-butyl phthalate(DBP)	IEC 62321-8 : 2017 (solvent extraction and determined by GC-MS)		N.D.
di(ethylhexyl) phthalate(DEHP)		50	N.D.
diisobutyl ohthalate(DIBP)		50	N.D.

Tested Samp	le List		
Sample No.	Sample Description	Item No.	Material
6	Air Purifier	Air filter	N/S

Photo of the submitted sample(s)



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Attachment 3 - Verification XRF Test Result

Phthalates, Unit: mg/kg

(EU Directive 2011/65/EU,2015/863/EU)

(10 2 11 20 11 20 11 11 20 12 12 12 12 12 12 12 12 12 12 12 12 12				
Test Conducted	Test Method	RL	Test Results	
butyl benzyl phthalate(BBP)	IFO 62224 0 : 2047	50	N.D.	
di-n-butyl phthalate(DBP)	IEC 62321-8 : 2017 (solvent extraction and determined by GC-MS)	50	N.D.	
di(ethylhexyl) phthalate(DEHP)		50	N.D.	
diisobutyl ohthalate(DIBP)		50	N.D.	

Tested Samp	le List		
Sample No.	Sample Description	Item No.	Material
7	Air Purifier	Air filter	N/S

Photo of the submitted sample(s)



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Attachment 3 - Verification XRF Test Result

Phthalates, Unit: mg/kg

(EU Directive 2011/65/EU,2015/863/EU)

Test Conducted	Test Method	RL	Test Results
butyl benzyl		50	N.D.
phthalate(BBP) di-n-butyl phthalate(DBP)	IEC 62321-8 : 2017 (solvent extraction and determined by GC-MS)	50	N.D.
di(ethylhexyl) phthalate(DEHP)	(60,000,000,000,000,000,000,000,000,000,	50	N.D.
diisobutyl ohthalate(DIBP)		50	N.D.

Tested Sample List				
Sample No.	Sample Description	Item No.	Material	
8	Air Purifier	Remote control knob	N/S	

Photo of the submitted sample(s)



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Attachment 3 - Verification XRF Test Result

Phthalates, Unit: mg/kg

(EU Directive 2011/65/EU,2015/863/EU)

• • • • • • • • • • • • • • • • • • • •			
Test Conducted	Test Method	RL	Test Results
butyl benzyl		50	N.D.
phthalate(BBP)	IFC 62224 9 : 2047		
di-n-butyl phthalate(DBP)	IEC 62321-8 : 2017 (solvent extraction and determined by GC-MS)	50	N.D.
di(ethylhexyl)	, , ,	50	N.D.
phthalate(DEHP)			
diisobutyl ohthalate(DIBP)		50	N.D.

Tested S	ample Lis	t		
Sample I	lo.	Sample Description	Item No.	Material
9		Air Purifier	Remote control holder	N/S

Photo of the submitted sample(s)





(#B09, #B11, Ojeon-dong), 19, Ojeonggongeop-gil, Uiwang-si, Gyeonggi-do, 16072 Korea

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Attachment 4 - Remark

- Results are obtain by XRF in regulated substances according to EN 62321-3-1:2013.
- 2. It is the result in total Br while test item in restricted substances in PBBs & PBDEs.
- 3. Screening limits mg/kg for regulated elements in various matrices.

Element	Polymers	Metals	Composite material
Cd	$BL \le (70 - 3\sigma) < X$ < $(130 + 3\sigma) \le OL$	$BL \le (70 - 3\sigma) < X$ < $(130 + 3\sigma) \le OL$	LOD < X <(150 + 3σ) < OL
Pb	BL ≤ (700 - 3σ) < X <(1 300 + 3σ) ≤ OL	BL ≤ (700 - 3σ) < X <(1 300 + 3σ) ≤ OL	BL ≤ (500 - 3σ) < X <(1 500 + 3σ) ≤ OL
Hg	BL ≤ (700 - 3σ) < X <(1 300 + 3σ) ≤ OL	BL ≤ (700 - 3σ) < X <(1 300 + 3σ) ≤ OL	BL ≤ (500 - 3σ) < X <(1 500 + 3σ) ≤ OL
Br	BL ≤ (300 - 3σ) < X	N/A	BL ≤ (250 - 3σ) < X
Cr	BL ≤ (700 -3σ) < X	BL ≤ (700 -3σ) < X	BL ≤ (500 - 3σ) < X

^{*} note : BL(Below limit), OL(Over Limit), X(Inconclusive)

4. The estimation criteria of XRF screening result applied 50 % of MCV(Maximum concentration value) which is defined in 2011/65/EU RoHS Directive.

Item	Cd	Pb	Hg	Br (PBBs, PBDEs)	Cr (Cr ⁸⁺)
MCV	100	1 000	1 000	1 000	1 000
Estimation criteria	50	500	500	500	500

The additional investigation procedure is taken when doubtful test result detected more than 50 % of MCV

The type of estimation

Type A	Detected more than 50 % of MCV of total Cr and confirmed absence of Cr ⁸⁺ by diphenylcarbazide reagent.
Туре В	Checked XRF spectrum and confirmed interference peak
Type C	Primary test result failed and replaced new ample. Finally confirmed through again XRF test.
Type D	Detected more than 50 % of MCV on total Br and confirmed absence PBBs/PBDEs through technical document of detected parts or material
Type E	Detected parts or material was conducted by chemical analysis

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Attachment 5 – Reference document

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the used of certain hazardous substances in electrical and electronic equipement.

2. EN 50581:2012

Technical documentation for the assessment of electrical and electronics products with respect to the restriction of hazardous of hazardous substances.

3. IEC 62321-1

Determination of certain substances in electrotechnical products - Part 1: Introduction and overeview

4. IEC 62321-3-1

Determination of certain cunstances in electrotechnical products - Part 3-1: Screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

5. EN 62474:2012

Material declaration for products of and for the electrotechnical industry.

6. IEC/TR 62476:2010

Guidance for evaluation of products with respect to substance use restriction in electrical and electronic products.

7. IEC 62321-8:2017 (Solvent extraction and determined by GC-MS)