



# Test Report

Report No.:XNO250513001BX2-1

Date:May 13, 2025

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Applicant: Guangzhou wangkong Ltd.

Address: Room 207, Building C, #3 Yangmeiling Street, KeMulang, Tianhe district, GuangZhou

The following sample(s) and information were submitted and identified by the applicant

Sample Name: Digital/Analog Inputs/Outputs Monitor  
XNO Report Number: XNO250513001BX2-1  
Model No.: MN-NIO  
Trademark: MONIGEAR, WANGKONG  
Manufacturer: Guangzhou wangkong Ltd.  
Manufacturer Address: Room 207, Building C, #3 Yangmeiling Street, KeMulang, Tianhe district, GuangZhou  
Origin of the Product(s): China  
Sample Received Date: Apr 11, 2025  
Sample Tested Date: Apr 11, 2025 to Apr 21, 2025  
Test Requested: Test as requested by client  
Test Method: Please refer to next page(s)  
Test Results: Please refer to next page(s)

## Summary of test results:

Test Requested	Conclusion
RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 - Lead, Mercury,Cadmium, Hexavalent Chromium, PBBs and PBDEs Content, Dibutyl phthalate (DBP), Benzylbutyl phthalate(BBP), Di-(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate(DIBP) Content	PASS

### Authorized signature

Kyle Kuang

Assistant manager

### Approved Signatory

**Guangzhou Supreme Technology & Testing Service Co., Ltd.**

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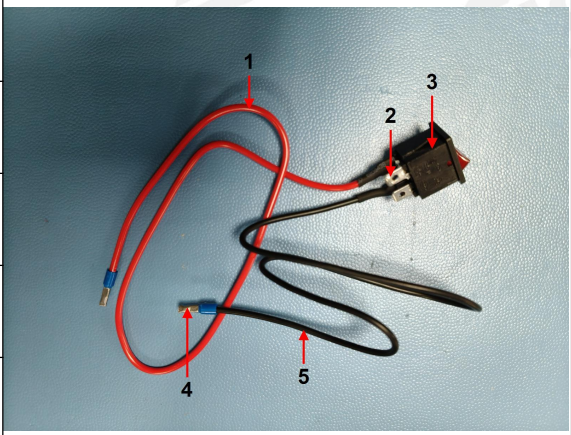
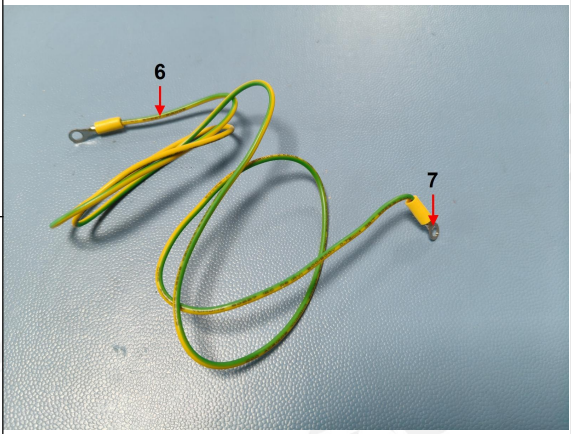
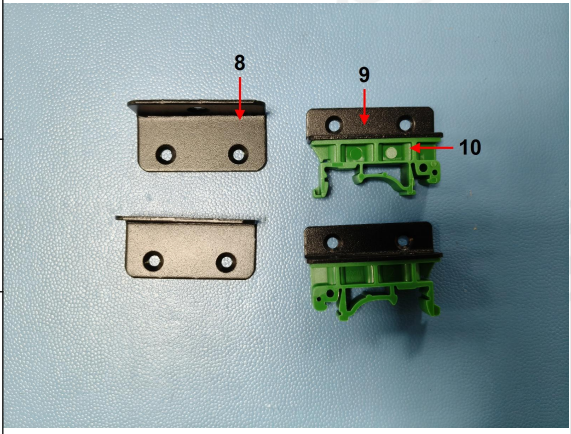
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**Test Result(s):**

**1. Test item description and Photo list**

Sample No.	Description	Remark	Photograph
1	Red plastic (wire sheath)		
2	Silvery metal (plug)		
3	Black plastic (plug)		
4	Silvery metal (wire splice)		
5	Black plastic (wire sheath)		
6	Yellow - green plastics (wire sheath)		
7	Silvery metal (wire splice)		
8	Black metal (accessories)		
9	Black metal (accessories)		
10	Green plastic (accessories)		

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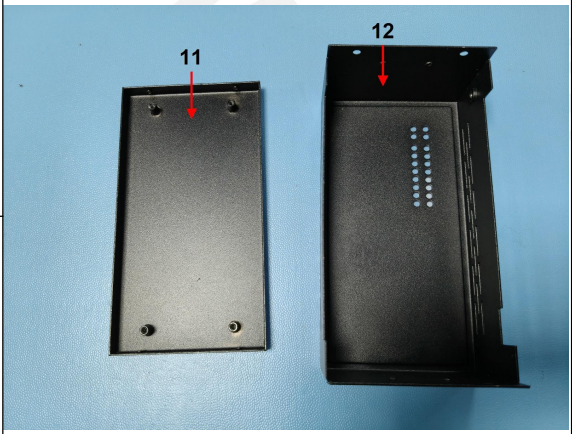
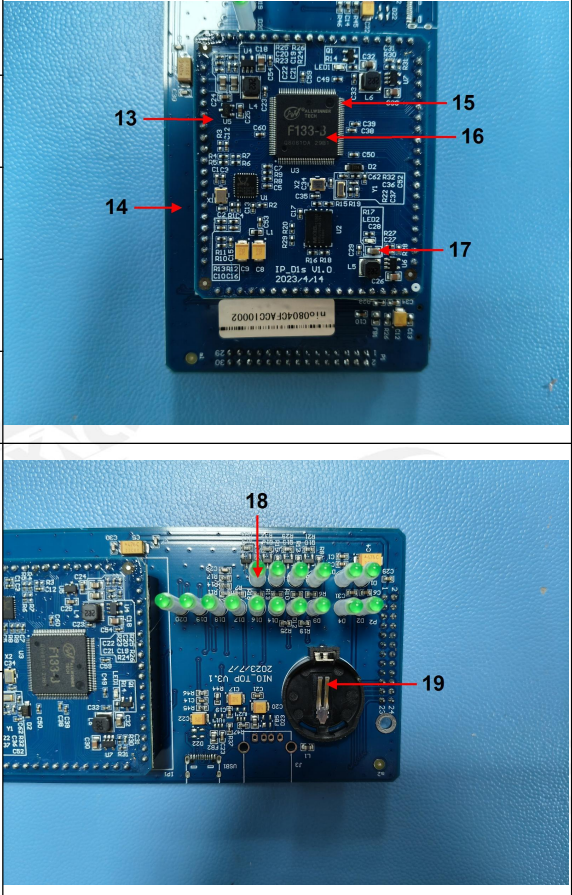
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Sample No.	Description	Remark	Photograph
11	Black metal (shell)		
12	Black metal (shell)		
13	Blue artificial material (circuit board)		
14	Blue artificial material (circuit board)		
15	Silvery metal (pin)		
16	Black ceramic		
17	Silvery metal (resistor)		
18	White plastic (board firmware)		
19	Silvery metal (board firmware)		

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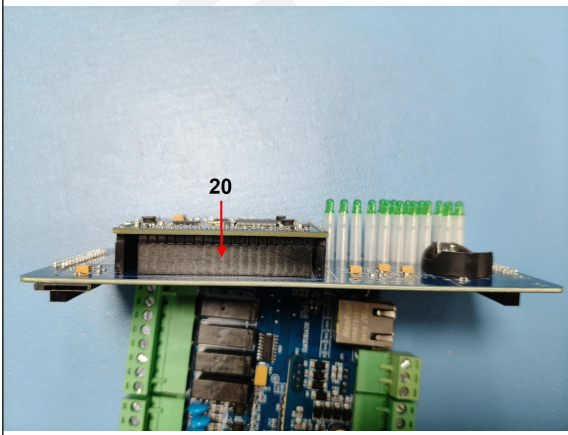
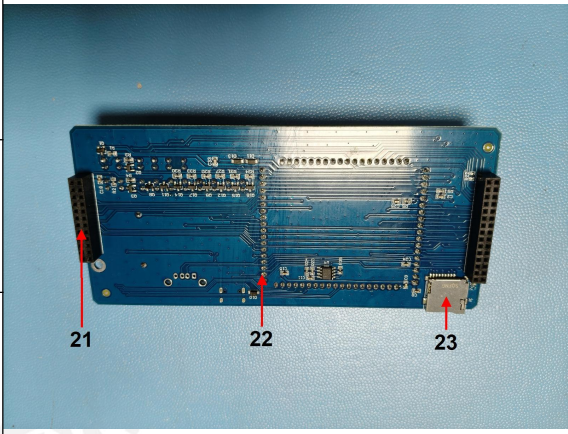
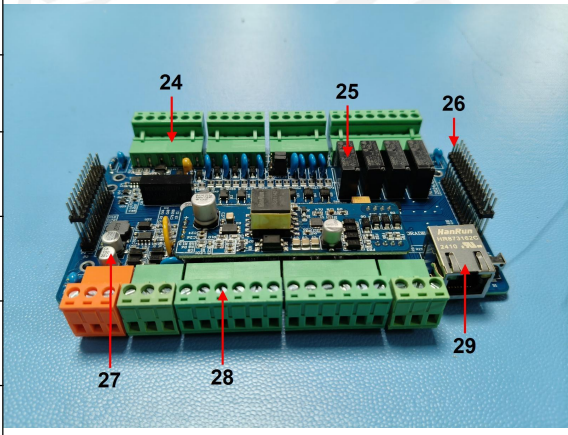
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Sample No.	Description	Remark	Photograph
20	Black plastic (circuit board components)		
21	Black plastic (circuit board components)		
22	Silvery metal (solder joints)		
23	Silvery metal (card reader)		
24	Green plastic (circuit board components)		
25	Black plastic (circuit board components)		
26	Silvery metal (circuit board components)		
27	Silvery metal (circuit board components)		
28	Silvery metal (circuit board components)		
29	Silvery metal (port)		

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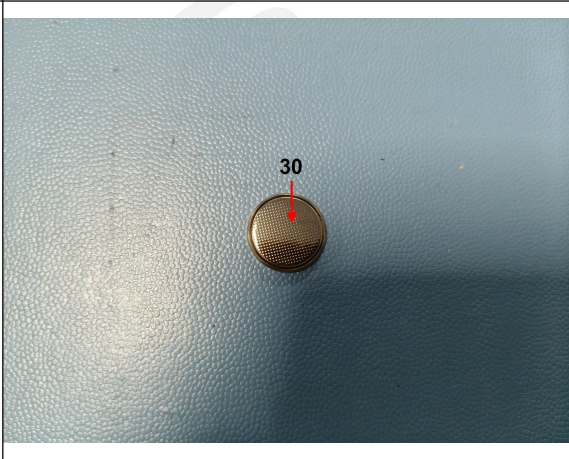

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Sample No.	Description	Remark	Photograph
30	Silvery metal (battery shell)		
31	Silvery metal (screws)		
32	Black metal (screws)		

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## 2. Test Results

### 2.1 Screening test for the specified hazardous substances of RoHS for the selected materials of the submitted sample:

- Heavy Metal (Cadmium, Lead, Mercury, Chromium) Content Test
- Bromine Content Test

Test Method: IEC 62321-3-1:2013, and Quantification analyzed by Energy DispersiveX-ray Fluorescence Spectrometers.

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
1	BL	BL	BL	BL	BL
2	BL	BL	BL	BL	N.A.
3	BL	BL	BL	BL	BL
4	BL	BL	BL	BL	N.A.
5	BL	BL	BL	BL	BL
6	BL	BL	BL	BL	BL
7	BL	BL	BL	BL	N.A.
8	BL	BL	BL	BL	N.A.
9	BL	BL	BL	BL	N.A.
10	BL	BL	BL	BL	BL
11	BL	BL	BL	BL	N.A.
12	BL	BL	BL	BL	N.A.
13	BL	BL	BL	BL	OL
14	BL	BL	BL	BL	OL
15	BL	BL	BL	BL	N.A.
16	BL	BL	BL	BL	N.A.
17	BL	BL	BL	BL	N.A.
18	BL	BL	BL	BL	BL
19	BL	BL	BL	BL	N.A.
20	BL	BL	BL	BL	BL
21	BL	BL	BL	BL	BL
22	BL	BL	BL	BL	N.A.
23	BL	BL	BL	BL	N.A.
24	BL	BL	BL	BL	BL
25	BL	BL	BL	BL	BL

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Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
26	BL	BL	BL	BL	N.A.
27	BL	BL	BL	BL	N.A.
28	BL	BL	BL	BL	N.A.
29	BL	BL	BL	BL	N.A.
30	BL	BL	BL	BL	N.A.
31	BL	BL	BL	BL	N.A.
32	BL	BL	BL	BL	N.A.

### Remarks:

1. "OL" denotes "over limit"
2. "BL" denotes "below limit"
3. "N.A." denotes "Not Applicable"
4. "Inconclusive" denotes result is intermediate between "OL" and "BL"
5. "^"denotes the screening result was inconclusive(X) or over limit (OL), thus further confirmation test was conducted, results are listed in 2.2 and 2.3.

### XRF screening limits for different materials:

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
<b>Metals</b>	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	N.A.
<b>Polymers</b>	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (300-3\sigma) < X$
<b>Composite material</b>	$BL \leq (50-3\sigma) < X < (150+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (250-3\sigma) < X$

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## 2. 2 Test for Heavy Metals( Lead, Cadmium, Mercury and Hexavalent Chromium)

Test Method: IEC 62321-4:2013+A1:2017 & IEC 62321-5:2013 & IEC 62321-7-1:2015 & IEC 62321-7-2:2017, analyzed by ICP-OES, UV-VIS.

Element	Total Cadmium	Total Lead	Total Mercury	Hexavalent Chromium ▼	Hexavalent Chromium
Limit	100	1000	1000	-	1000
Unit	mg/kg	mg/kg	mg/kg	µg/cm <sup>2</sup>	mg/kg
MDL	5	5	5	0.10	5

### Remarks:

- 1 mg/kg = 1ppm = 0.0001%
- MDL = Method Detection Limit
- N.D. = Not Detected (Less than MDL)
- "-" = Not Regulated
- The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- IEC 62321 series is equivalent to EN 62321 series.
- ▼ = a.concentration is greater than 0.13ug/cm<sup>2</sup>,The sample coating is considered to contain Cr(VI);  
b.if Cr(VI)is N.D.(concentration less than 0.10ug/cm<sup>2</sup>).The coating is considered a non-Cr(VI) based coating;  
c.The result between 0.10ug/cm<sup>2</sup> and 0.13ug/cm<sup>2</sup> is considered to be inconclusive -unavoidable coating variations may influence the determination;  
Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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## 2.3 Test for Flame retardants (PBBs&PBDEs)

Test Method: IEC 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

	Test Item(s)	Limit	Unit	MDL	Result	
					13	14
PBBs	Monobromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Dibromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Tribromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Tetrabromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Pentabromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Hexabromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Heptabromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Octabromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Nonabromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Decabromobiphenyl	-	mg/kg	5	N.D.	N.D.
	Sum of PBBs	1000	mg/kg	-	N.D.	N.D.
PBDEs	Monobromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Dibromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Tribromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Tetrabromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Pentabromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Hexabromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Heptabromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Octabromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Nonabromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Decabromodiphenyl Ether	-	mg/kg	5	N.D.	N.D.
	Sum of PBDEs	1000	mg/kg	-	N.D.	N.D.

Remarks:

- 1 mg/kg = 1ppm = 0.0001%
- MDL = Method Detection Limit
- N.D. = Not Detected (Less than MDL)
- "-" = Not Regulated

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## 2.4 Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content—RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863

Test Method: IEC 62321-8:2017, analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Element	Dibutyl phthalate (DBP)	Benzyl butyl phthalate (BBP)	Di-(2-ethylhexyl) phthalate (DEHP)	Diisobutyl phthalate(DIBP)
Limit	1000	1000	1000	1000
Unit	mg/kg	mg/kg	mg/kg	mg/kg
MDL	50	50	50	50
1	N.D.	N.D.	N.D.	N.D.
3	N.D.	N.D.	N.D.	N.D.
5	N.D.	N.D.	N.D.	N.D.
6	N.D.	N.D.	N.D.	N.D.
10	N.D.	N.D.	N.D.	N.D.
13	N.D.	N.D.	N.D.	N.D.
14	N.D.	N.D.	N.D.	N.D.
18	N.D.	N.D.	N.D.	N.D.
20	N.D.	N.D.	N.D.	N.D.
21	N.D.	N.D.	N.D.	N.D.
24	N.D.	N.D.	N.D.	N.D.
25	N.D.	N.D.	N.D.	N.D.

Remarks:

- 1 mg/kg = 1ppm = 0.0001%
- MDL = Method Detection Limit
- N.D. = Not Detected (Less than MDL)

**Note:** As specified by applicant, to test content in the selected materials of the submitted samples. Pic.1 to Pic.4 are the sample tested. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

**Declaration:** Report XNO250411221BX2-1 was repealed and replaced by Report XNO250513001BX2-1.  
(Modify the product name and replace the picture on May 13, 2025.)

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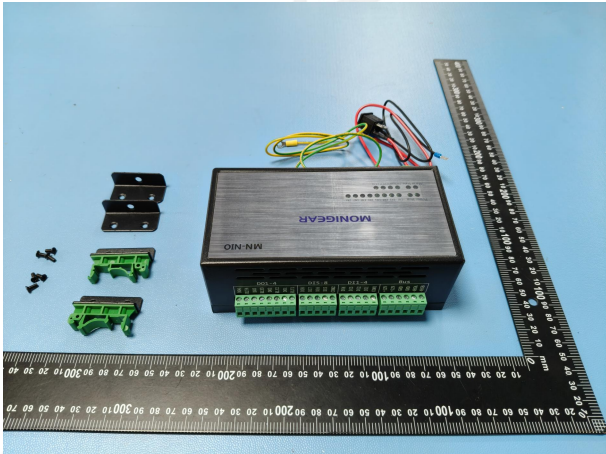
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## Sample Photo:



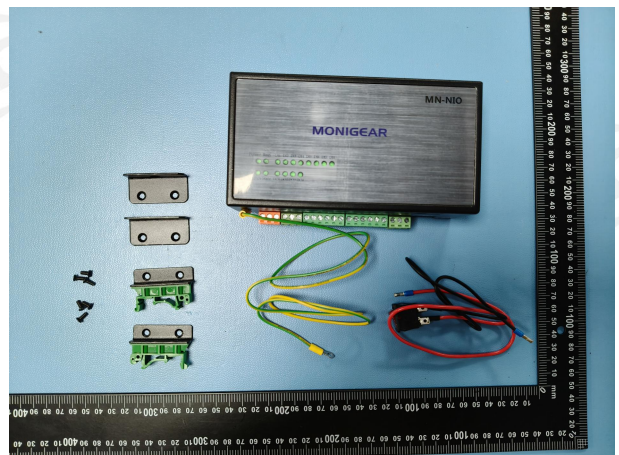
Pic.1



Pic.2



Pic.3



Pic.4

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

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