

Report No. 70.400.21.0262.01-00/01

Dated 2020-02-08



China

Technical Report

Applicant: LONGi Green Energy Technology Co., Ltd.
No.388,Middle Hangtian Road, Chang' an District, Xi' an, Shaanxi 710100,
P.R.China

Attn: Ma Cui

Manufacturer: LONGi Green Energy Technology Co., Ltd.

Test subject: Refer to next pages

Test specification: **Extractable Heavy Metals Test**
Using the Toxicity Characteristic Leaching Procedure, test Method EPA
1311:1992, analysis was performed by ICP-OES.

Test result: Refer to the data listed in following pages

Conclusion: Extractable Heavy Metals Test Pass

Remarks:

1. The result relates only to the items tested
2. Samples were tested as received

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1. Order

1.1 Date of Purchase Order

2021-01-28

1.2 Customer's Reference

Nil

1.3 Receipt Date of Test Sample

2021-01-28

1.4 Date of Testing

2021-01-28~2021-02-07

1.5 Document submitted

Nil

1.6 Location of Testing

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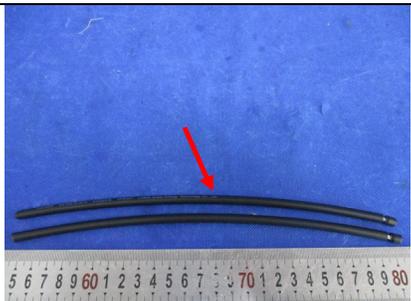
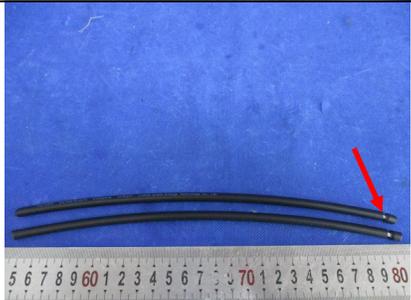
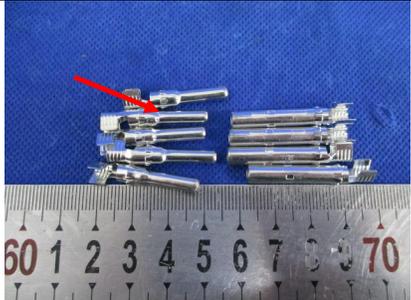
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2. Description of the tested subject

No.	Tested sample	Picture
001	Black soft cable jacket	 A photograph showing a black, flexible cable jacket. A red arrow points to the jacket. Below the jacket is a ruler for scale, with markings from 5 to 80.
002	Silvery metal wire	 A photograph showing a silvery metal wire. A red arrow points to the wire. Below the wire is a ruler for scale, with markings from 5 to 80.
003	Silvery metal rod	 A photograph showing several silvery metal rods. A red arrow points to one of the rods. Below the rods is a ruler for scale, with markings from 60 to 70.

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No.	Tested sample	Picture
004	Gray plastic	
005	Black plastic shell	
006	Black soft plastic sheath	

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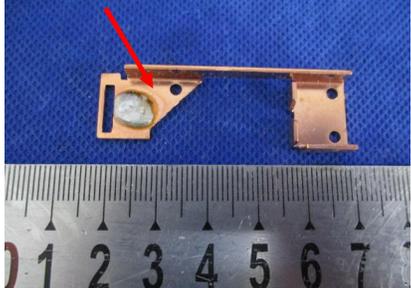
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No.	Tested sample	Picture
007	Black plastic clip	
008	Solder	
009	Copper metal piece	

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No.	Tested sample	Picture
0010	White soft plastic ring	 A photograph showing several white, soft plastic rings of varying sizes scattered on a blue textured surface. A red arrow points to one of the rings. Below the rings is a metal ruler with markings from 9 to 6.
0011	Silvery metal clip	 A photograph showing several small, silvery metal clips scattered on a blue textured surface. A red arrow points to one of the clips. Below the clips is a metal ruler with markings from 60 to 7.
0012	Black plastic	 A photograph showing a single black plastic component on a blue textured surface. A red arrow points to the component. Below the component is a metal ruler with markings from 1 to 7.

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No.	Tested sample	Picture
0013	Black plastic	
0014	Black plastic shell	
0015	Silvery metal pin	

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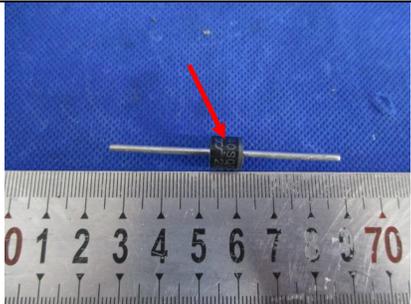
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No.	Tested sample	Picture
0016	Black diode	 A photograph of a small black diode component with two silver leads. A red arrow points to the diode. Below it is a ruler showing centimeter markings from 0 to 70.
0017	Silvery solder strip Snb3pb37_0.3*4mm	 A photograph of a thin, silvery solder strip. A red arrow points to the strip. Below it is a ruler showing centimeter markings from 4 to 60.
0018	Silvery solder strip Snb3pb37_0.43*0.35mm	 A photograph of a coiled silvery solder strip. A red arrow points to the coil. Below it is a ruler showing centimeter markings from 1 to 4.

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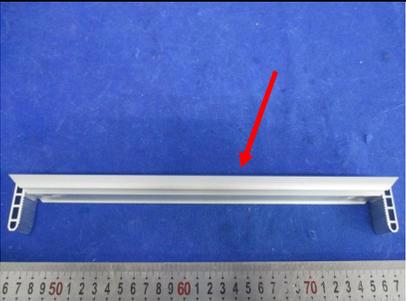
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No.	Tested sample	Picture
0019	Silvery solder strip Snb3pb37_0.3*7mm	
0020	Silvery metal rod 6005-T6 LONGI	
0021	Silvery metal 6005-T6 LONGI	

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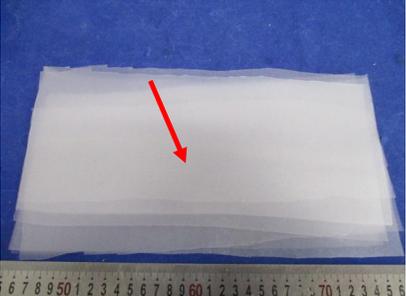
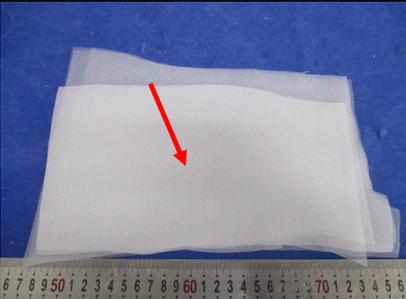
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No.	Tested sample	Picture
0022	First EVA F406PS	
0023	First POE TF4	
0024	LONGI POE LRPT	

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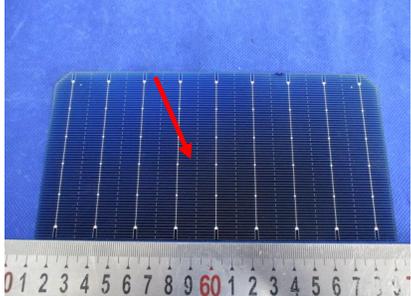
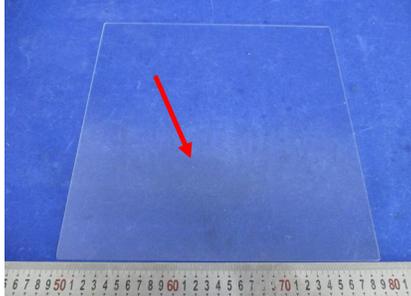
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No.	Tested sample	Picture
0025	LONGI EVA LRET	
0026	Black solar panel LONGI M10B9B	
0027	Transparent glass LONGI (2.0mm) Clear Float Glass	

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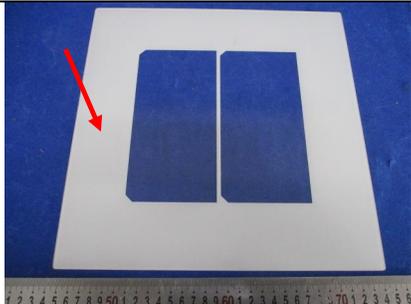
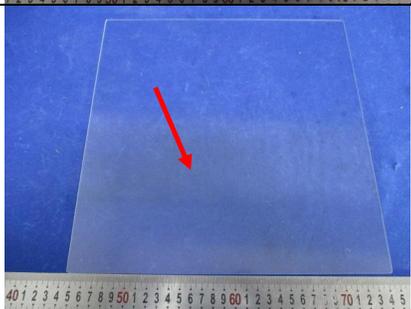
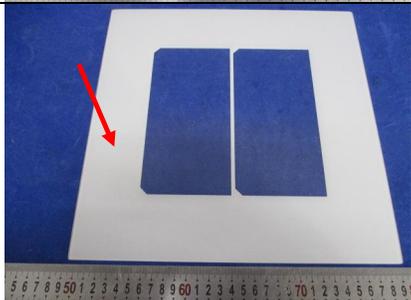
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No.	Tested sample	Picture
0028	Transparent glass with white coating LONGI (2.0mm) Clear Float Glass	
0029	Transparent glass Float (2.0mm)	
0030	Transparent glass with white coating Float (2.0mm)	

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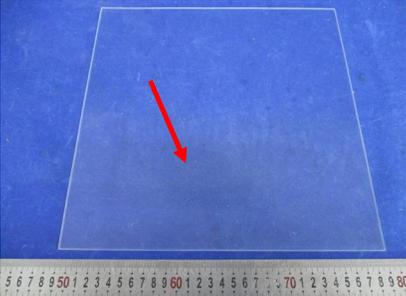
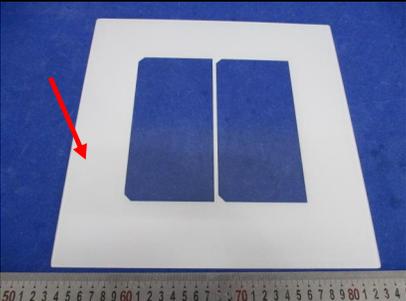
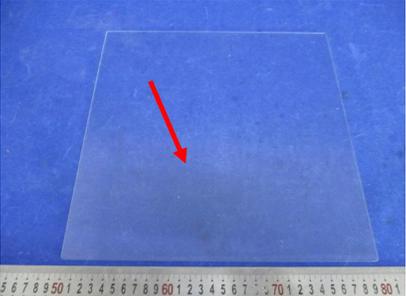
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No.	Tested sample	Picture
0031	Transparent glass Xin yi (2.0mm)	
0032	Transparent glass with white coating Xin yi (2.0mm)	
0033	Transparent glass LONGI (2.0mm)	

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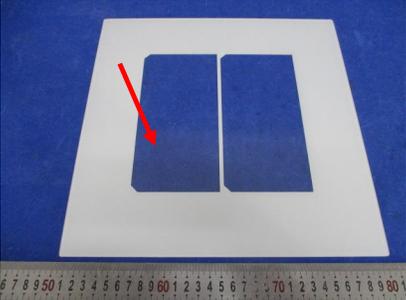
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No.	Tested sample	Picture
0034	Transparent glass with white coating LONGI (2.0mm)	
0035	White soft glue Tian chen HT-8258/HT-6360	
0036	White soft glue Tosan 1527/1521	

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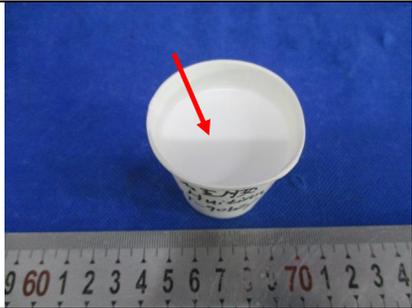
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No.	Tested sample	Picture
0037	White soft glue Hui tian HT-9062/HT-5299W-S	 A photograph of a small white plastic cup filled with white soft glue. A red arrow points to the surface of the glue. Below the cup is a ruler showing centimeter markings from 60 to 70.

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3. Test Results

3.1 Extractable Heavy Metals Test

Using the Toxicity Characteristic Leaching Procedure, test Method EPA 1311:1992, analysis was performed by ICP-OES.

Test item	MDL (mg/L)	Result				Regulatory Level (mg/L)
		001	002	003	004	
Arsenic (As)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	<0.2	<0.2	<0.2	100.0
Cadmium(Cd)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Mercury(Hg)	0.2	<0.2	<0.2	<0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	<0.2	<0.2	<0.2	5.0

Remark:

1. MDL = Method Detection Limit
2. ND = Not detected (<MDL)
3. "mg/L" denotes "milligram per liter"
4. Maximum Concentration quote from 40 CFR 261.24 - Toxicity characteristic table 1: Maximum Concentration of Contaminants for the Toxicity Characteristic

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Report No. 70.400.21.0262.01-00/01

Dated 2021-02-08



China

3.1 Extractable Heavy Metals Test

Using the Toxicity Characteristic Leaching Procedure, test Method EPA 1311:1992, analysis was performed by ICP-OES.

Test item	MDL (mg/L)	Result				Regulatory Level (mg/L)
		005	006	007	008	
Arsenic (As)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	<0.2	<0.2	<0.2	100.0
Cadmium(Cd)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Mercury(Hg)	0.2	<0.2	<0.2	<0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	<0.2	<0.2	<0.2	5.0

Remark:

1. MDL = Method Detection Limit
2. ND = Not detected (<MDL)
3. "mg/L" denotes "milligram per liter"
4. Maximum Concentration quote from 40 CFR 261.24 - Toxicity characteristic table 1: Maximum Concentration of Contaminants for the Toxicity Characteristic

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Test item	MDL (mg/L)	Result				Regulatory Level (mg/L)
		009	010	011	012	
Arsenic (As)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	<0.2	<0.2	<0.2	100.0
Cadmium(Cd)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Mercury(Hg)	0.2	<0.2	<0.2	<0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	<0.2	<0.2	<0.2	5.0

Remark:

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Test item	MDL (mg/L)	Result				Regulatory Level (mg/L)
		013	014	015	016	
Arsenic (As)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	<0.2	<0.2	<0.2	100.0
Cadmium(Cd)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	<0.2	3.5	<0.2	5.0
Mercury(Hg)	0.2	<0.2	<0.2	<0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	<0.2	<0.2	<0.2	5.0

Remark:

1. MDL = Method Detection Limit
2. ND = Not detected (<MDL)
3. "mg/L" denotes "milligram per liter"
4. Maximum Concentration quote from 40 CFR 261.24 - Toxicity characteristic table 1: Maximum Concentration of Contaminants for the Toxicity Characteristic

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Test item	MDL (mg/L)	Result				Regulatory Level (mg/L)
		017	018	019	020	
Arsenic (As)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	<0.2	<0.2	<0.2	100.0
Cadmium(Cd)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Mercury(Hg)	0.2	<0.2	<0.2	<0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	<0.2	<0.2	<0.2	5.0

Remark:

1. MDL = Method Detection Limit
2. ND = Not detected (<MDL)
3. "mg/L" denotes "milligram per liter"
4. Maximum Concentration quote from 40 CFR 261.24 - Toxicity characteristic table 1: Maximum Concentration of Contaminants for the Toxicity Characteristic

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Test item	MDL (mg/L)	Result				Regulatory Level (mg/L)
		021	022	023	024	
Arsenic (As)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	<0.2	<0.2	<0.2	100.0
Cadmium(Cd)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Mercury(Hg)	0.2	<0.2	<0.2	<0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	<0.2	<0.2	<0.2	5.0

Remark:

1. MDL = Method Detection Limit
2. ND = Not detected (<MDL)
3. "mg/L" denotes "milligram per liter"
4. Maximum Concentration quote from 40 CFR 261.24 - Toxicity characteristic table 1: Maximum Concentration of Contaminants for the Toxicity Characteristic

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Test item	MDL (mg/L)	Result				Regulatory Level (mg/L)
		025	026	027	028	
Arsenic (As)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	3.8	<0.2	20	100.0
Cadmium(Cd)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	1.9	<0.2	<0.2	5.0
Mercury(Hg)	0.2	<0.2	<0.2	<0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	<0.2	<0.2	<0.2	5.0

Remark:

1. MDL = Method Detection Limit
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Test item	MDL (mg/L)	Result				Regulatory Level (mg/L)
		029	030	031	032	
Arsenic (As)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	20	<0.2	17	100.0
Cadmium(Cd)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Mercury(Hg)	0.2	<0.2	<0.2	<0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	<0.2	<0.2	<0.2	5.0

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Test item	MDL (mg/L)	Result				Regulatory Level (mg/L)
		033	034	035	036	
Arsenic (As)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	13	<0.2	<0.2	100.0
Cadmium(Cd)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	<0.2	<0.2	<0.2	5.0
Mercury(Hg)	0.2	<0.2	<0.2	<0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	<0.2	<0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	<0.2	<0.2	<0.2	5.0

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Test item	MDL (mg/L)	Result	Regulatory Level (mg/L)
		037	
Arsenic (As)	0.2	<0.2	5.0
Barium(Ba)	0.2	<0.2	100.0
Cadmium(Cd)	0.2	<0.2	1.0
Chromium(Cr)	0.2	<0.2	5.0
Lead (Pb)	0.2	<0.2	5.0
Mercury(Hg)	0.2	<0.2	0.2
Selenium(Se)	0.2	<0.2	1.0
Silver(Ag)	0.2	<0.2	5.0

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Engineer:


Ms. Peng Qiping

Checked by:


Ms. Qi Nannan

- End of Report -

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