

REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 1 of 13

Applicant Company Name: GEMBIRD ELECTRONICS (NINGBO) LIMITED

Applicant Company Address: Dagutang Road, Simen Town, YuYao City, Zhejiang, China

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name : POWER CORD

PC-186-XXX, PC-189-XXX, PC-186-VDE-XXX, PC-189-VDE-XXX, PC-186-C19,

PC-189-C19, PC-184-VDE-XXX, PC-184/2-XXX, PC-187-XXX, PC-SFC14M-01,

PC-186A-VDE-XXX, PC-187-ML12-XXX, PC-187-ML7-XXX

("X" can be 0-9 to denote length and can be "G", "W", to denote color)

Trademark : GEMBIRD

Model No.

Manufacturer : GEMBIRD ELECTRONICS (NINGBO) LIMITED

Address : Dagutang Road, Simen Town, YuYao City, Zhejiang, China

Sample Receiving Date : June 20, 2022

Testing Period : From June 20, 2022 to June 23, 2022

Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST CONCLUSION

A EU RoHS Directive 2011/65/EU and its amendment directives2015/863/EU (RoHS 2.0)

Shenzhen Deesev Testing International Corp

Approved by:

lab manager

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein, any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced execept in full, without prior written approval of the company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) lested.





REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 2 of 13

Results:

1 EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq.	of the state of th	Results					
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br	
1	Black Soft Plastics	BL	BL	BL	BL	BL	
012	Internal White Plastic	BL	BL	BL	BL	X	
3	Silver Metal Round Plug	Х	BL	BL	BL	N/A	
4	Silver Metal Sheet	BL	BL	BL	BL	N/A	
5	Black Plastic Skin	BL	BLo	BL	BL	BL	
6	Brown Plastic Wire Outer Skin	BL	BL	BL	BL	BL	
7	Blue Plastic Wire Outer Skin	BL	BL	BL	BL	BL	
8	Green Yellow Plastic Wire Outer Skin	BL	BL	BL	BL	BL	
9	Internal Metal Wire	BL	BL	BL	BL	N/A	
10	Black Soft Plastics	BL	BL	BL	BL	BL	
oTi 11	Internal White Plastic	BL	BL	BL	BL	∅ X	
12	Gold Metal Terminal	BL	BL	BL	BL	N/A	

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein.any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced execept in full, without prior written approval of the company.any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.





REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 3 of 13

Remark:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

(DTI)	(DTI)	oril oril or	il otil otil	ori) ori		
Element	Unit	Non-metal	Metal	Composite Material		
Cd (mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	BL≤50-3σ< X <150+3σ≤OL		
Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤ OL	BL≤500-3σ< X <1500+3σ≤OL		
Hgorii	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL		
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X		
Br	mg/kg	BL≤300-3σ< X	oril - oril	BL≤250-3σ< X		

Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive
N/A = Not Applicable

(2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein, any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company is observed its leient and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced execept in full, without prior written approval of the company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.





REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 4 of 13

(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)			
Cadmium (Cd)	≤100			
Lead (Pb)	≤1000			
Mercury (Hg)	≤1000			
Hexavalent Chromium (Cr(VI))	≤1000			
Polybrominated biphenyls (PBBs)	≤1000			
Polybrominate ddiphenylethers (PBDEs)	≤1000 (pm)			
Di-2-ethylhexyl phthalate (DEHP)	≤1000			
Benzyl-n-butyl phthalate (BBP)	≤1000			
Di-n-butyl phthalate (DBP)	≤1000			
Di-iso-butyl phthalate (DIBP)	≤1000			

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein.any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced execept in full, without prior written approval of the company.any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.





REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 5 of 13

2. The Test Results of Chemical Method:

Test method:

Lead, Cadmium, Mercury Content:

With reference to IEC 62321-5:2013 and IEC62321-4:2013+AMD1:2017, by acid digestion and analysis was performed by Inductively Coupled Plasma- Atomic Emission Spectrophotometer (ICP-AES)

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

Hexavalent Chromium Content (For non-metal material):

With reference to IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic/mass spectrometer (GC-MS)

DEHP, BBP, DBP&.DIBP content:

With reference to IEC 62321-8:2017 by solvent extraction and analysis was performed by gas chromatographic -mass spectrometer (GC-MS)

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein.any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced except in full, without prior written approval of the company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



9th Flr., Building B, Feiyang Science & Technology Park, Longchang Rd.No.8,Bao'an,Shenzhen, Guangdong, China 中国 广东省 深圳市 宝安区隆昌路 8号飞扬科技园 B座9楼



REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 6 of 13

1) The test results of Pb

14	11:4	MDI	Results	Limit	
Item	Unit	MDL	3 70 3		
Lead(Pb)	mg/kg	2	9812^	≤1000	
Conclusion	1	/	Pass	1	
(DTI) (DTI)	(011)	(01)	(D11) (D11) (D11) (D11)	(1)	

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- ^= the weight of lead in the copper alloy does not exceed 4%(40000ppm).

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein.any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced execept in full, without prior written approval of the company.any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.





REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 7 of 13

2) The test results of PBBs & PBDEs

lta	11!4	NAD!	Res		
Item	Unit	MDL	2	11	Limit
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	1
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	1
Tribromobiphenyl	mg/kg	5115	(671) N.D. (671)	OTN.D. OTI	bri
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	1
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	1
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	a l
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	1
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	1
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	1
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	10
Total content	mg/kg	/	N.D.	N.D.	≤1000
Polybrominated Diphenylethers (PBI	DEs)(Mon	-Deca)			
Monobromodiphenyl ether	mg/kg	5	(ori) N.D. (ori)	orii N.D. orii	(NO)
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	1
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	1
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	1
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	1
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	1
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	1
Octabromodiphenyl ether	mg/kg	10 5	N.D.	N.D.	(OTI)
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	1
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	1
Total content	mg/kg	1	N.D.	(071) N.D. (071)	≤1000
Conclusion	1	/	Pass	Pass	1

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein.any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced execept in full, without prior written approval of the company.any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



9th FIr., Building B, Feiyang Science & Technology Park, Longchang Rd.No.8,Baoʻan,Shenzhen, Guangdong, China 中国 广东省 深圳市 宝安区隆昌路 8号飞扬科技园 B座9楼



REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 8 of 13

3) The test results of DEHP, BBP, DBP & DIBP

u	Unit	MDL	Results				\	
Itemptil (pril			1	2	5	6	7	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	1011	1 (Pass	Pass	Pass	Pass	Pass	(071)

Maria	1114			1		
ltem (pri)	Unit	MDL	811	OT 10	(p ^{†1)} 11 (p [†]	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Conclusion	STI	1 01	Pass	Pass	Pass	OTIV

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Decision rule: According to DTI-CX-39-2022 《Decision rule for conformity of the test results》
- Flow chart appendix is included.
- Photo appendix is included.

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein.any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced except in full, without prior written approval of the company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



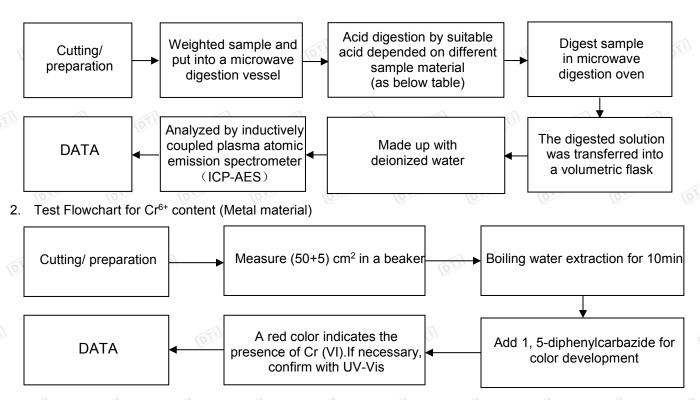


REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 9 of 13

Appendix I

Test Flow chart

Test Flowchart for Cd / Pb /Hg content
 These samples were dissolved totally by pre-conditioning method according to below flow chart.



This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein, any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company is one responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced exceept in full, without prior written approval of the company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



9th Fir., Building B, Feiyang Science & Technology Park, Longchang Rd.No.8,Bao'an,Shenzhen, Guangdong, China中国广东省 深圳市 宝安区隆昌路 8号 飞扬科技园 B座9楼



REPORT No.: DTIBW20221171-1 Page 10 of 13 Date: 2022-06-23 3. Test Flowchart for Cr6+ content (Non-metal material) Adjust the pH of Weighted sample Add digestion solution and extracted solution to Cutting/ and put into a heat in constant temperature 7.5 ± 0.5 and transfer preparation shaking water baths conical flask into a volumetric flask Made up with Analyzed by UV-vis Adjust the pH to 2.0 ± 0.5 and deionized water; add DATA (540nm) make up with deionized water Diphenylcarbazide solution Test Flowchart for PBBs & PBDEs content Add organic solvent and Concentrated/ Cutting/ Weight sample and extracted by dilute extracted solution preparation place in a thimble Ultrasonic method Cool, cleanup solution Concentrated extracted Make up with organic solvent ◀ Data Analyzed by GC-MS solution 5. Test Flowchart for DEHP, BBP, DBP & DIBP content Add organic solvent and Cutting/ Weight sample and Concentrated/ extracted by dilute extracted solution place in a thimble preparation Ultrasonic method Cool, cleanup solution Analyzed by GC-MS ◀ Make up with organic solvent ◀ Concentrated extracted Data solution

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein, any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced except in full, without prior written approval of the company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



Shenzhen Deesev Testing International Corp.



REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 11 of 13

Table:

Sample material	Digestion Acid					
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂					
Glass	HNO ₃ /HF					
Gold, platinum, palladium, ceramic	Aqua regia					
Silver (DT) (DT)	HNO ₃					
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl					
Others	Any acid to total digestion					

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exoneate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced execept in full, without prior written approval of the company, any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.





REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 12 of 13

Appendix $lap{I}$

Photograph of Sample



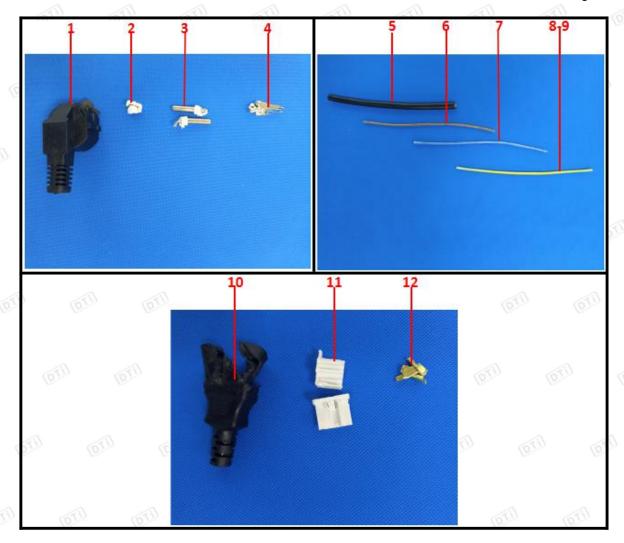
This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein.any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced execept in full, without prior written approval of the company.any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



9th Flr., Building B, Feiyang Science & Technology Park, Longchang Rd.No.8, Bao'an, Shenzhen, Guangdong, China 中国 广东省 深圳市 宝安区隆昌路 8号 飞扬科技园 B座9楼 Tel: +86-755-32936716



REPORT No.: DTIBW20221171-1 Date: 2022-06-23 Page 13 of 13



*** End of Report ***

This document is issued by the Company subject to its General Conditions of service of service printed overleaf, available on requestfor electronic format documents, subject to terms and conditions for electronic documents is drawn to the limitation of liability indemnitication and jurisdiction issues defined therein.any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and within the limits of client's instructions, if any, the company's sole responsibility is to its client and this document does not exonerate parties to atransaction from exercising all their rights and obligations under the transaction documents, this document cannot be reproduced execept in full, without prior written approval of the company.any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



9th FIr., Building B, Feiyang Science & Technology Park, Longchang Rd.No.8,Baoʻan,Shenzhen, Guangdong, China 中国 广东省 深圳市 宝安区隆昌路 8号飞扬科技园 B座9楼