



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52410251363TY

Date: FEB 06, 2024

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HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD HAPE INTERNATIONAL (NINGBO) LTD
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA PC:315800

The following samples were submitted and identified by/on behalf of the client as:

E3040 CARNIVAL BUILDER SET

Item No. : E3040
Country of Origin : CHINA
Country of Destination : GLOBAL
Client Reference Information : E3040A
Labeled Age Grading : 5-12 YEARS
Requested Age Grading : 5-8Y

Age Group Assessed by SGS As Per Age : OVER 5 YEARS
Guideline
Age Group Applied in Testing : OVER 5 YEARS
Sample Receiving Date : JAN 29, 2024
Testing Period : JAN 29, 2024 TO FEB 06, 2024



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Test Requested		Conclusion
1.	Australian Trade Practices Act 1974 (Renamed Australian Competition and Consumer Act 2010 from January 2011) - Consumer Protection Notice No. 1 of 2009 - Consumer Product Safety Standard: Lead and Certain Elements in Children's Toys	PASS*
2.	For compliance with the Australian/New Zealand Standard on Safety of toys:	--
	AS/NZS ISO 8124.1:2023 – Safety of toys – Part 1: Safety aspects related to mechanical and physical properties	PASS
	AS/NZS ISO 8124-2:2023 – Safety of toys – Part 2: Flammability	PASS
	AS/NZS ISO 8124.3: 2021 – Safety of toys – Part 3 – Migration of Certain Elements	PASS
3.	New Zealand Unsafe Goods (Lead in children's toys) Indefinite Prohibition Notice 2009	PASS

Remark: Test item (s) with “*” is (are) not accredited by CNAS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center

Shelly

Aaron



Jia Fengjuan, Shelly
Dept. Manager
CNAS Approved Signatories

Sun Enxu, Aaron
Dept. Manager
CNAS Approved Signatories



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Results:

Australian Trade Practices Act 1974 - Consumer Protection Notice No. 1 of 2009 - Consumer Product Safety Standard: Lead and Certain Elements in Children's Toys

Method: With reference to AS/NZS ISO 8124.3: 2021 and AS/NZS 8124.3: 2003

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (mg/kg)				5	5	2.5	10	5	5	5	10
Permissible Limit (mg/kg) – Other than Modeling Clay and Finger Paint				90	60	25	1000	75	60	60	500
Permissible Limit (mg/kg) – Modeling clay				90	60	25	250	50	25	25	500
Permissible Limit (mg/kg) – Finger paint				25	10	10	350	15	25	10	50
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Soluble Result(s) (mg/kg)							
1	1	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	2	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	3	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	4	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	5	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	6	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	7	/	ND	ND	ND	ND	ND	ND	ND	ND
8	1	8	/	ND	ND	ND	ND	ND	ND	ND	ND
9	1	9	/	ND	ND	ND	ND	ND	ND	ND	ND
10	1	10	/	ND	ND	ND	ND	ND	ND	ND	ND
11	1	11	/	ND	ND	ND	ND	ND	ND	ND	ND
12	1	12	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	13	/	ND	ND	ND	ND	ND	ND	ND	ND
14	1	14	/	ND	ND	ND	ND	ND	ND	ND	ND
15	1	15	/	ND	ND	ND	ND	ND	ND	ND	ND
16	1	16	/	ND	ND	ND	ND	ND	ND	ND	ND
17	1	17	/	ND	ND	ND	ND	ND	ND	ND	ND
18	1	18	/	ND	ND	ND	ND	ND	ND	ND	ND
19	1	19	/	ND	ND	ND	ND	ND	ND	ND	ND



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Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (mg/kg)				5	5	2.5	10	5	5	5	10
Permissible Limit (mg/kg) – Other than Modeling Clay and Finger Paint				90	60	25	1000	75	60	60	500
Permissible Limit (mg/kg) – Modeling clay				90	60	25	250	50	25	25	500
Permissible Limit (mg/kg) – Finger paint				25	10	10	350	15	25	10	50
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Soluble Result(s) (mg/kg)							
20	1	20	/	ND	ND	ND	ND	ND	ND	ND	ND
21	1	21	/	ND	ND	ND	ND	ND	ND	ND	ND
22	1	22	/	ND	ND	ND	ND	ND	ND	ND	ND
23	1	23	/	ND	ND	ND	ND	ND	ND	ND	ND
24	1	24	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Yellow soft plastic (TPE) (Screwdriver)
2. Orange plastic (PA) (Connector, accessory)
3. Silvery-grey plastic (PA) (Screw, nut)
4. Light orange plastic (ABS) (Accessory)
5. Red silicone rubber (Belt)
6. White plastic sheet (PE) (Accessory)
7. White woven cord (Accessory)
8. Dull orange plastic (ABS) (Accessory)
9. Dull orange plastic (PA) (Screw)
10. Black plastic (ABS) (Accessory)
11. Grey plastic (PP) (Screwdriver)
12. Yellow plastic (Screwdriver)
13. Dark silvery-grey plastic (Screwdriver)
14. Red plastic (ABS) (Accessory)
15. Dull red silicone rubber (Belt)
16. Snow white plastic sheet (Accessory)
17. Transparent plastic film (Accessory)



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Specimen Description:

18. Cream plywood
19. Dark cream wood
20. Transparent lacquer coating on wood (Accessory)
21. Multi-color coating on plastic (Pattern)
22. White paper label w/ multi-color coating (Sticker)
23. White paper sheet w/ multi-color coating (Instruction)
24. White paper card (Accessory)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - Result(s) of specimen No. 1-No.7 is(are) extracted from report No. T52310240832TY

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- * Exceed Permissible Limit

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in AS/NZS 8124.3: 2021 and AS/NZS 8124.3: 2003, Clause 7 – Selection of Test Portions
Red coating on wood (Pattern)



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AS/NZS ISO 8124.1: 2023– SAFETY OF TOYS – PART 1: SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN AS/NZS ISO 8124.1: 2023 – SAFETY OF TOYS – PART 1: SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

Clause	Description	Result
4	Requirements	
4.1	General	PASS
4.2	Reasonably foreseeable abuse	PASS
4.3	Material	
4.3.1	Material quality (Visual Examination)	PASS
4.3.2	Expanding materials	N/A
4.4	Small parts	
4.4.1	For children under 36 months	N/A
4.4.2	For children 36 months and over but under 72 months	PASS
4.5	Shape, size and strength of certain toys	
4.5.1	Squeeze toys, rattles, fasteners and certain other toys and components of toys	N/A
4.5.2	Small balls	N/A
4.5.3	Pompoms	N/A
4.5.4	Preschool play figures	N/A
4.5.5	Toy pacifiers	N/A
4.5.6	Balloons	N/A
4.5.7	Marbles	N/A
4.5.8	Hemispheric-shaped toys	N/A
4.6	Edges	PASS
4.7	Points	PASS
4.8	Projections	PASS
4.9	Metal wires and rods	N/A
4.10	Plastic film or plastic bags in packaging and in toys	PASS
4.11	Cords	N/A
4.12	Folding mechanism	
4.12.1	Toy pushchairs, perambulators and similar toys	N/A
4.12.2	Other toys with folding mechanisms	N/A
4.12.3	Hinge-line clearance	N/A
4.13	Holes, clearances and accessibility of mechanisms	N/A



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Clause	Description	Result
4.14	Springs	N/A
4.15	Stability and overload requirements	N/A
4.16	Enclosures	N/A
4.17	Items that cover the face and simulated protective equipment	N/A
4.18	Projectile toys	N/A
4.19	Flying toys	N/A
4.20	Aquatic toys	N/A
4.21	Braking	N/A
4.22	Toy Bicycles	N/A
4.23	Speed limitation of electrically driven ride-on toys	N/A
4.24	Toys containing a heat source	N/A
4.25	Liquid-filled toys	N/A
4.26	Mouth-actuated toys	N/A
4.27	Toy roller skates, toy inline skates and toy skateboards	N/A
4.28	Percussion caps specifically designed for use in toys	N/A
4.29	Acoustic requirements	N/A
4.30	Toy scooters	N/A
4.31	Magnets and magnetic components	N/A
4.32	Yo-yo balls	N/A
4.33	Straps intended to be worn fully or partially around the neck	N/A
4.34	Sledges and toboggans with cords for pulling	N/A
4.35	Jaw entrapment in handles and steering wheels	N/A
4.36	Assembly	PASS
4.37	Functional toys	N/A
4.38	Toys intended to come into contact with food	N/A
4.39	Inflatable toys	N/A



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Clause	Description	Result
Annex B	Safety-labeling guidelines and manufacturer's markings	
B.2	Safety-labeling guidelines	
B.2.1	Good practice for visibility and legibility	See Remark
	Remark: The standard has introduced good practice by addressing the following aspects:	
	a) Emphasising the warning	
	b) Contrast, background and colours	
	c) Reflecting surfaces and obscuring material	
	d) Font type	
	e) Font and symbol size	
	f) Logical direction of text	
B.2.2	Age grading	PASS
B.2.3	Toys that are small parts, toys containing small parts and toys with removable small part components	PASS
B.2.4	Balloons	N/A
B.2.5	Small balls and marbles	N/A
B.2.6	Aquatic toys	N/A
B.2.7	Toys intended to come into contact with food	N/A
B.2.8	Toys intended to be assembled by an adult	N/A
B.2.9	Toys intended to be strung across a cradle, cot, perambulator or carriage	N/A
B.2.10	Simulated protective equipment	N/A
B.2.11	Toys with functional sharp edges and functional sharp points	N/A
B.2.12	Functional toys	N/A
B.2.13	Toy roller skates, toy inline skates and toy skateboards	N/A
B.2.14	Toy kites	N/A
B.2.15	Toy bicycles	N/A
B.2.16	Percussion caps	N/A
B.2.17	Toys which produce high peak sound pressure levels	N/A
B.2.18	Toy scooters	N/A
B.2.19	Magnetic or electrical experimental sets for children 8 years and over	N/A
B.2.20	Toys with electrical cables exceeding 300 mm in length	N/A
B.2.21	Cords in toys intended for children 18 months and over but under 36 months	N/A
B.2.22	Sledges and toboggans with cords for pulling	N/A
B.2.23	Toys intended to be attached to a cradle, cot, perambulator or carriage or intended to be suspended over a cot from a wall or ceiling	N/A
B.2.24	Flying toys	N/A



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Test Report

No.: T52410251363TY

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Clause	Description	Result
B.3	Instructional literature	
B.3.1	Information and Instructions	N/A
B.3.2	Crib, playpen toys and mobiles	N/A
B.3.3	Crib gyms and similar toys	N/A
B.3.4	Toy chests	N/A
B.3.5	Liquid-filled teethingers and liquid-filled teething toys	N/A
B.3.6	Toys intended to be assembled by an adult	N/A
B.3.7	Projectile toys	N/A
B.3.8	Toy bicycles	N/A
B.3.9	Toy scooters	N/A
B.3.10	Remote-controlled flying toys	N/A
B.4	Manufacturer's Markings	PASS
Annex D	Toy gun marking	N/A
5	Test methods	
5.24	Reasonably foreseeable abuse tests	
5.24.1	General	PASS
5.24.2	Drop test	PASS
5.24.3	Tip-over test for large and bulky toys	N/A
5.24.4	Dynamic strength test for wheeled ride-on toys other than toy scooters	N/A
5.24.5	Torque test	PASS
5.24.6	Tension test	PASS
5.24.7	Compression test	N/A
5.24.8	Flexure test	N/A



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AS/NZS ISO 8124-2: 2023– SAFETY OF TOYS – PART 2: FLAMMABILITY
AS SPECIFIED IN AS/NZS ISO 8124-2: 2023 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

Clause	Description	Result
4.1	General	PASS
4.2.2	Beards, moustaches, wigs, etc. made from pile or flowing elements which protrude 50 mm or more from the surface of the toy	N/A
4.2.3	Beards, moustaches, wigs, etc. made from pile or flowing elements which protrude less than 50 mm from the surface of the toy	N/A
4.2.4	Full or partial moulded head masks	N/A
4.2.5	Toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods and headdresses, including upward-protruding items and masks not covered by 4.2.4 which partially or fully cover the head (e.g. fabric and paperboard masks, eye masks, face masks), but excluding those items covered by 4.3	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A

Type of gas: Butane gas used in the test burner





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AS/NZS ISO 8124.3: 2021 – Safety of toys – Part 3 – Migration of Certain Elements

Method: With reference to AS/NZS ISO 8124.3: 2021

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (mg/kg)				5	5	2.5	10	5	5	5	10
Permissible Limit (mg/kg) – Other than Modeling Clay and Finger Paint				90	60	25	1000	75	60	60	500
Permissible Limit (mg/kg) – Modeling clay				90	60	25	250	50	25	25	500
Permissible Limit (mg/kg) – Finger paint				25	10	10	350	15	25	10	50
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Soluble Result(s) (mg/kg)							
1	2	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	2	2	/	ND	ND	ND	ND	ND	ND	ND	ND
3	2	3	/	ND	ND	ND	ND	ND	ND	ND	ND
4	2	4	/	ND	ND	ND	ND	ND	ND	ND	ND
5	2	5	/	ND	ND	ND	ND	ND	ND	ND	ND
6	2	6	/	ND	ND	ND	ND	ND	ND	ND	ND
7	2	7	/	ND	ND	ND	ND	ND	ND	ND	ND
8	2	8	/	ND	ND	ND	ND	ND	ND	ND	ND
9	2	9	/	ND	ND	ND	ND	ND	ND	ND	ND
10	2	10	/	ND	ND	ND	ND	ND	ND	ND	ND
11	2	11	/	ND	ND	ND	ND	ND	ND	ND	ND
12	2	12	/	ND	ND	ND	ND	ND	ND	ND	ND
13	2	13	/	ND	ND	ND	ND	ND	ND	ND	ND
14	2	14	/	ND	ND	ND	ND	ND	ND	ND	ND
15	2	15	/	ND	ND	ND	ND	ND	ND	ND	ND
16	2	16	/	ND	ND	ND	ND	ND	ND	ND	ND
17	2	17	/	ND	ND	ND	ND	ND	ND	ND	ND
18	2	18	/	ND	ND	ND	ND	ND	ND	ND	ND
19	2	19	/	ND	ND	ND	ND	ND	ND	ND	ND
20	2	20	/	ND	ND	ND	ND	ND	ND	ND	ND



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Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (mg/kg)				5	5	2.5	10	5	5	5	10
Permissible Limit (mg/kg) – Other than Modeling Clay and Finger Paint				90	60	25	1000	75	60	60	500
Permissible Limit (mg/kg) – Modeling clay				90	60	25	250	50	25	25	500
Permissible Limit (mg/kg) – Finger paint				25	10	10	350	15	25	10	50
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Soluble Result(s) (mg/kg)							
21	2	21	/	ND	ND	ND	ND	ND	ND	ND	ND
22	2	22	/	ND	ND	ND	ND	ND	ND	ND	ND
23	2	23	/	ND	ND	ND	ND	ND	ND	ND	ND
24	2	24	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Yellow soft plastic (TPE) (Screwdriver)
2. Orange plastic (PA) (Connector, accessory)
3. Silvery-grey plastic (PA) (Screw, nut)
4. Light orange plastic (ABS) (Accessory)
5. Red silicone rubber (Belt)
6. White plastic sheet (PE) (Accessory)
7. White woven cord (Accessory)
8. Dull orange plastic (ABS) (Accessory)
9. Dull orange plastic (PA) (Screw)
10. Black plastic (ABS) (Accessory)
11. Grey plastic (PP) (Screwdriver)
12. Yellow plastic (Screwdriver)
13. Dark silvery-grey plastic (Screwdriver)
14. Red plastic (ABS) (Accessory)
15. Dull red silicone rubber (Belt)
16. Snow white plastic sheet (Accessory)
17. Transparent plastic film (Accessory)
18. Cream plywood



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Specimen Description:

19. Dark cream wood
20. Transparent lacquer coating on wood (Accessory)
21. Multi-color coating on plastic (Pattern)
22. White paper label w/ multi-color coating (Sticker)
23. White paper sheet w/ multi-color coating (Instruction)
24. White paper card (Accessory)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - Result(s) of specimen No. 1-No.7 is(are) extracted from report No. T52310240832TY

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- * Exceed Permissible Limit

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in AS/NZS ISO 8124.3: 2021, Clause 7 – Selection of Test Portions

Red coating on wood (Pattern)



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New Zealand Unsafe Goods (Lead in children's toys) Indefinite Prohibition Notice 2009

Method: With reference to AS/NZS ISO 8124.3: 2021

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)	Pb			
MDL (mg/kg)	5			
Permissible Limit (mg/kg)	90			
Specimen Description	Alias No.	Tracing No.	Mass of trace amount (mg)	Soluble Result(s) (mg/kg)
1. Yellow soft plastic (TPE) (Screwdriver)	3	1	/	ND
2. Orange plastic (PA) (Connector, accessory)	3	2	/	ND
3. Silvery-grey plastic (PA) (Screw, nut)	3	3	/	ND
4. Light orange plastic (ABS) (Accessory)	3	4	/	ND
5. Red silicone rubber (Belt)	3	5	/	ND
6. White plastic sheet (PE) (Accessory)	3	6	/	ND
7. White woven cord (Accessory)	3	7	/	ND
8. Dull orange plastic (ABS) (Accessory)	3	8	/	ND
9. Dull orange plastic (PA) (Screw)	3	9	/	ND
10. Black plastic (ABS) (Accessory)	3	10	/	ND
11. Grey plastic (PP) (Screwdriver)	3	11	/	ND
12. Yellow plastic (Screwdriver)	3	12	/	ND
13. Dark silvery-grey plastic (Screwdriver)	3	13	/	ND
14. Red plastic (ABS) (Accessory)	3	14	/	ND
15. Dull red silicone rubber (Belt)	3	15	/	ND
16. Snow white plastic sheet (Accessory)	3	16	/	ND
17. Transparent plastic film (Accessory)	3	17	/	ND
18. Cream plywood	3	18	/	ND
19. Dark cream wood	3	19	/	ND
20. Transparent lacquer coating on wood (Accessory)	3	20	/	ND
21. Multi-color coating on plastic (Pattern)	3	21	/	ND



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Test Item(s)				Pb
MDL (mg/kg)				5
Permissible Limit (mg/kg)				90
Specimen Description	Alias No.	Tracing No.	Mass of trace amount (mg)	Soluble Result(s) (mg/kg)
22. White paper label w/ multi-color coating (Sticker)	3	22	/	ND
23. White paper sheet w/ multi-color coating (Instruction)	3	23	/	ND
24. White paper card (Accessory)	3	24	/	ND

- Note:
- mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - Result(s) of specimen No. 1-No.7 is(are) extracted from report No. T52310240832TY

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- * Exceeds Permissible Limit

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in AS/NZS ISO 8124.3: 2021, Clause 7 – Selection of Test Portions

Red coating on wood (Pattern)

Note:

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the report:

N/A = Not Applicable

** = Visual Examination

DNI = Did Not Ignite

SE = Self-Extinguishing

IBE = Ignite But Self-Extinguished

SE within 50mm = Self-extinguished within 50 mm of flame application



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2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$

Sample Picture (As received)

Pic.1



SGS authenticate the photo on original report only

*** End of Report ***

