

Test Report No.: GZHL2303005226IP Date: Mar 15, 2023 Page 1 of 14

MAKBYTE KAMIL RENCZEWSKI

UL. PROF. DR. M. MICHAŁOWICZA 12 43-300 BIELSKO-BIAŁA POLSKA

Sample Description : TODDLERROAD SILICONE TOY

Item No. : BLACK 01-05

Manufacturer : SHENZHEN KEAN SILICONE PRODUCT CO., LTD

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

\*\*\*\*\*\*

Sample Receiving Date : Mar 02, 2023

Test Performing Date : Mar 02, 2023 to Mar 15, 2023

Test Performed : Selected test(s) as requested by applicant

Test Result(s) : For further details, please refer to the following page(s)

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

Arthur Mak

**Authorized Signatory** 





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I. SGS Ref No.: CAN23-029272, CAN23-033948

Test Requested	Result
EN 71-3:2019+A1:2021 - Migration of Certain Elements	PASS
ASTM F963-17 (Clause 4.3.5) - Total Lead and Soluble Elements	PASS
CPSIA section 101(f) - Lead in paint/similar surface coating material	PASS
CPSIA section 101(a)(2) - Lead in accessible substrate materials (including Children's Metal Jewelry)	PASS
Consumer Product Safety Commission - 16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	PASS
Phthalates(DNOP, DIDP)	See Results
Entry 63 of Commission Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Lead and its compounds	PASS
Entry 23 of Commission Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Cadmium and its compounds	PASS
Entry 51 & 52 of Commission Regulation (EU) 2018/2005 & Commission Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalates	PASS
California Proposition 65 - Phthalates	PASS
California AB1108 - Phthalates(DBP, BBP, DEHP, DINP, DNOP, DIDP)	PASS
Alkanes C <sub>10</sub> ~C <sub>13</sub> , chloro (short chain-chlorinated paraffins) (SCCPs)	See Results

# Test Result(s):

#### Test Part Description:

SGS Sample ID	Description
CAN23-029272.001	
CAN23-033948	White paint(semi-product)
CAN23-029272.002	Black soft plastic
CAN23-029272.003	Black soft plastic with white printing

## Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected ( < MDL)

(4) "-" = Not Regulated



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## EN 71-3:2019+A1:2021 - Migration of Certain Elements (Category III: Scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES. Chromium (VI) was analyzed by IC-UV/LC-ICP-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND
Soluble Lead (Pb)	23	mg/kg	10	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND
Soluble Tin (Sn)	180000	mg/kg	4.9	ND	ND
Soluble Organic Tin	12	mg/kg	-	ND	ND
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.020	ND	ND
Comment				PASS	PASS

#### Notes:

- 1. According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula: Soluble Chromium (III)= Soluble Total Chromium- Soluble Chromium (VI)
- 2. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.
- 3. The results(s) of 001 shown is/are of the total weight of dried sample.



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## ASTM F963-17 (Clause 4.3.5) - Total Lead and Soluble Elements

A. Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by ICP-OES.

Test Item(s) Limit **Unit MDL** 001 Total Lead (Pb) 90 20 ND mg/kg Comment **PASS** 

B. Test Method: With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES.

Test Item(s) Limit Unit MDL 002 Total Lead (Pb) ND 100 mg/kg 20 Comment **PASS** 

C. Test Method: With reference to ASTM F963-17(Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND
Soluble Lead (Pb)	90	mg/kg	5	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND
Comment				PASS	PASS

#### Notes:

- 1. Results shown are of the adjusted analytical results.
- 2. The results(s) of 001 shown is/are of the total weight of dried sample.

# CPSIA section 101(f) - Lead in paint/similar surface coating material

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Total Lead (Pb)	90	mg/kg	20	ND
Comment				<b>PASS</b>



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## CPSIA section 101(a)(2) - Lead in accessible substrate materials (including Children's Metal Jewelry)

Test Method: With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES.

Test Item(s) Limit Unit MDL 002 Total Lead (Pb) ND 100 mg/kg 20 Comment **PASS** 

# Consumer Product Safety Commission - 16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.005	ND
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.005	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%(w/w)	0.005	ND
Di(2-ethylhexyl)phthalate(DEHP)	117-81-7	0.1	%(w/w)	0.005	ND
Dihexyl Phthalates (DHEXP/ DnHP)	84-75-3	0.1	%(w/w)	0.005	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	0.1	%(w/w)	0.005	ND
	68515-48-0				
Dipentyl Phthalates (DPENP/DnPP)	131-18-0	0.1	%(w/w)	0.005	ND
Comment					<b>PASS</b>

# Phthalates(DNOP, DIDP)

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.005	ND



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## Entry 63 of Commission Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Lead and its compounds

Test Method: With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES.

Test Item(s) Unit **MDL** 002 Limit Total Lead (Pb) ND 500 mg/kg 20 Comment **PASS** 

# Entry 23 of Commission Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Cadmium and its compounds

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by ICP-OES.

Test Item(s) MDL 002 Limit Unit Cadmium (Cd) 0.01 %(w/w) 0.0005 ND

# Entry 51 & 52 of Commission Regulation (EU) 2018/2005 & Commission Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	003
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.005	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.005	ND
Di(2-ethylhexyl)phthalate(DEHP)	117-81-7	0.1	%(w/w)	0.005	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.005	ND
Total (DBP + BBP + DEHP+DIBP)	-	0.1	%(w/w)	-	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	-	%(w/w)	0.005	ND
	68515-48-0				
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	-	%(w/w)	0.005	ND
	68515-49-1				
Total (DINP+DNOP+DIDP)	-	0.1	%(w/w)	-	ND



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#### Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
  - i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and
  - ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.
  - iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.
  - Please refer to Regulation (EU) 2018/2005 to get more detail information
- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.
  - i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
  - ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.
  - Please refer to Regulation (EU) 2015/326 to get more detail information

#### California Proposition 65 - Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	003
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.005	ND
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.005	ND
Di(2-ethylhexyl)phthalate(DEHP)	117-81-7	0.1	%(w/w)	0.005	ND
Dihexyl Phthalates (DHEXP/ DnHP)	84-75-3	0.1	%(w/w)	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	0.1	%(w/w)	0.005	ND

#### Notes:

(1) The limit is referenced to the requirement as stated in the ACSC Case No. BG07350969.



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## California AB1108 - Phthalates(DBP, BBP, DEHP, DINP, DNOP, DIDP)

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

### For any toy or childcare article

Test Item(s)	CAS NO.	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.005	ND
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.005	ND
Di(2-ethylhexyl)phthalate(DEHP)	117-81-7	0.1	%(w/w)	0.005	ND

For any toy or childcare article intended for use by a child under three years of age if that product can be placed in the child's mouth

Test Item(s)	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Diisononyl Phthalate (DINP)	28553-12-0 /	0.1	%(w/w)	0.005	ND
	68515-48-0				
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	0.1	%(w/w)	0.005	ND
	68515-49-1				

## Alkanes C<sub>10</sub>~C<sub>13</sub>, chloro (short chain-chlorinated paraffins) (SCCPs)

Test Method: With reference to ISO 22818:2021, analysis was performed by GC-NCI-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Alkanes C <sub>10</sub> ~C <sub>13</sub> , chloro (short chain-chlorinated	85535-84-8 and	mg/kg	50	ND
paraffins) (SCCPs)	others			

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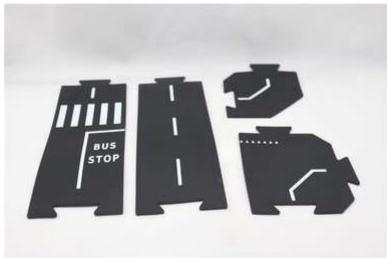
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## Sample photo:



**Product Photo** 

#### II. SGS Ref No.: T52310260241TY

This test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch.

Labeled Age Grading 1+ Requested Age Grading 12M+

Age Group Assessed by SGS As Per Age **OVER 12 MONTHS** 

Guideline

Age Group Applied in Testing : OVER 12 MONTHS

Test	Conclusion	
1.	For compliance with the European standard on Safety of toys:-	
	EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	EN 71-2: 2020 – Safety of toys – Part 2: Flammability	PASS
	Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	SEE RESULT



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2.	Per applicant's request, for compliance with the selected requirement(s) of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety. Refer to test result page(s) for details.			
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	DASS		
(Except Clause 4.3)	PASS			

#### Results:

## **EUROPEAN STANDARD ON SAFETY OF TOYS**

#### EN 71-1:2014 + A1:2018 - SAFETY OF TOYS - PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1:2014 + A1:2018 - SAFETY OF TOYS - PART 1: MECHANICAL AND PHYSICAL **PROPERTIES** 

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	Result
4	General Requirements	
4.1	Materials cleanliness	PASS
4.7	Edges	PASS
4.8	Points and Metallic Wires	PASS
5	Toys intended for Children under 36 months	
5.1	General Requirements	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	PASS
5.1b	Torque test (Test method 8.3)	PASS
5.1b	Tension test (Test method 8.4)	PASS
5.1b	Drop test (Test method 8.5)	PASS
5.1b	Impact test (Test method 8.7)	PASS
5.1b	Sharp edge (Test method 8.11)	PASS
5.1b	Sharp point (Test method 8.12)	PASS
7	Warnings, markings and instructions for use	
7.1	General	PASS
	Note: Please note that for assessing the visibility and legibility of warnings,	

CEN has introduced good practice in the informative Annex A.33 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 size
- f) Logical direction of text



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For more details, see EN 71-1.

According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

#### EN 71-2: 2020 - SAFETY OF TOYS - PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2: 2020 - SAFETY OF TOYS - PART 2: FLAMMABILITY

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause Description Result 4.1 General requirements **PASS** 

LABELING REQUIREMENT (WASHING/CLEANING LABEL, CE MARK, IMPORTER / MANUFACTURER MARK (NAME, ADDRESS), PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE **DIRECTIVE 2009/48/EC-SAFETY OF TOYS** 

### Summary table:

	Observation Result	Location	
Washing/Cleaning instruction	Not Applicable		
CE mark	Present	Packaging	
Importer's Name & Address	Present	Packaging	
Manufacturer's Name & Address	Present	Packaging	
Product ID	Present	Packaging	

#### Note:

- According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable."
- CE marking should be visible from outside the packaging and its height must be at least 5mm.
- Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
- Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required



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information is provided on the packaging or in a document accompanying the toy.

#### ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	PASS
4.2	Flammability Test	PASS
		(See Result Page)
4.6.1	Small Objects	PASS
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Labelling Requirements	N/A
4.7	Accessible Edges	PASS
4.9	Accessible Points	PASS
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	PASS
5.16	Promotional Materials	PASS
7	Producer's Markings	
7.1	Producer's Markings	PASS
8.5	Normal Use Testing	PASS
8.7	Impact Test	PASS
8.8	Torque Test	PASS
8.9	Tension Test	PASS

#### Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Burning Rate (inch/sec) Sample TODDLERROAD SILICONE TOY DNI

#### Requirement:

A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

N.B.: - Only applicable clauses were shown.



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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

#### Remark:

- 1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
- 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<sub>95</sub>. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For		Up	per	Tolerance		Limit	t	(T <sub>U</sub> ):
Pass	=	when	the	measurement	result	is	below	$T_U$ - $U_{95}$
Fail	-	when	the	measurement	result	is	above	$T_U+U_{95}$
Inconclu	sive - wh	nen the measi	urement res	sult is falling in guard b	and [T <sub>U</sub> -U <sub>95</sub>	, T <sub>U</sub> +U <sub>95</sub> ]		
For		Lo	wer	Tolerance		Limi	t	(T <sub>L</sub> ):
Pass	-	when	the	measurement	result	is	above	$T_L + U_{95}$
Fail	-	when	the	measurement	result	is	below	$T_L$ - $U_{95}$
Inconclu	sive - wł	nen the measi	rement res	sult is falling in guard b	and Ti-U95	Tı+U95 ]		



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## Sample Picture (As received)

Pic.1



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



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