



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No : AW0011331(9)

Date: 08 Mar 2018

Application No : LW005493(0)

Applicant : YOSHIRITSU CO., LTD.
1563 KOSHIBE,
OYODO YOSHINO,
NARA 638-0803
JAPAN

Sample Description : Seven (7) submitted sample(s) stated to be:
Name of Parts :
LaQ RED No.1-7
LaQ BLUE No.1-7
LaQ YELLOW No.1-7
LaQ GREEN No.1-7
LaQ PINK No.1-7
LaQ SKY BLUE No.1-7
LaQ ORANGE No.1-7
LaQ LIME No.1-7
LaQ WHITE No.1-7
LaQ BLACK No.1-7
LaQ BROWN No.1-7
LaQ GRAY No.1-7
LaQ CLEAR No.1-7
LaQ CLEAR RED No.1-7
LaQ CLEAR BLUE No.1-7
LaQ CLEAR YELLOW No.1-7
LaQ HAMACRON CONSTRUCTOR WHEEL
LaQ HAMACRON CONSTRUCTOR SHAFT
LaQ HAMACRON CONSTRUCTOR MINI WHEEL
LaQ HAMACRON CONSTRUCTOR MINI SHAFT
LaQ HAMACRON CONSTRUCTOR MIDDLE WHEEL
LaQ SWEET COLLECTION HEADBAND

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature :

Cheung Chok Ming
Deputy Manager
Toys and Material Division

Wan Leong Hang
Deputy Manager
Toys and Material Division

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Sample Description : Seven (7) submitted sample(s) stated to be:

Blister Case ORANGE
Blister Case RED
Blister Case BLUE
Blister Case PINK
Blister Case LIME
Plastic Container (Small)
Plastic Container (Large)

Item Name

- (A) LaQ Hamacron Constructor POLICE CAR
- (B) LaQ Marine World MINI CLOWNFISH
- (C) LaQ Marine World MINI HAMMERHEAD SHARK
- (D) LaQ Marine World MINI JELLYFISH
- (E) LaQ Marine World MINI OTTER
- (F) LaQ Marine World MINI SEA TURTLE
- (G) LaQ Sweet Collection MY LITTLE RESTAURANT

Labelled Age Grading : Age 5 years and up
Appropriate Age Grade : Age 3 years and up (For EN 71)
Age 4 years and up
(For ASTM F963 item B to F only)
Age 6 years and up
(For ASTM F963 item A and G only)
Client's Requested Age Grading : Not Requested
Tested Age Grade : Age 3 years and up (For EN71)
Age 4 years and up
(For ASTM F963 item B to F only)
Age 5 years and up
(For ASTM F963 item A and G only)
Country of Origin : Japan

Date Received : 22 Feb 2018.

Test Period : 27 Feb 2018 to 02 Mar 2018.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature :

Cheung Chok Ming
Deputy Manager
Toys and Material Division

Wan Leong Hang
Deputy Manager
Toys and Material Division

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| Test Requested : | <u>Test Item</u> | <u>Result</u> |
|------------------|---|----------------------------|
| I. | EN71 : Part 1 : 2014 - Physical and Mechanical Properties; | Passed |
| II. | EN71 : Part 2 : 2011 + A1 : 2014- Flammability test; | Passed |
| III. | EN71 : Part 3 : 2013 + A2 : 2017 - Migration of certain elements (Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (III), Chromium (VI), Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin, Organic Tin and Zinc). | Passed |
| IV. | ASTM F963-16 - Physical and Mechanical Tests - Flammability Test - Heavy Elements Test (Clause 4.3.5) | Passed Passed Passed |
| V. | Lead content in accordance with U.S. Consumer Product Safety Improvement Act of 2008 – Sec. 101 : Children’s Products Containing Lead; Lead Paint Rule. | Passed |
| VI. | Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment Regulation (EU) No. 494/2011 and No. 835/2012 | Passed |
| VII. | Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII - Phthalates contents (formerly Directive 2005/84/EC). | Passed |
| VIII. | Phthalates contents in accordance with U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 108 : Prohibition on Sale of Certain Products Containing Specified Phthalates. | Passed |


Test Result : Refer to the result pages for details.

- Remark :
- (i) The submitted samples were requested by the client to be tested in composite form. The results for composite sample are calculated based on the component with the least weight.
 - (ii) The data of sample No. 1 to 100 of this report were transferred from test Report No. AV0034265(9) issued on 26 Jun 2017.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature :


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Deputy Manager
Toys and Material Division


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Deputy Manager
Toys and Material Division

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Report No : AW0011331(9)

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Application No : LW005493(0)

Test Result :

I. EN71 : Part 1 : 2014 (For item A only)

| <u>Clause</u> | <u>Title/Description</u> | <u>Remark*</u> |
|---------------|--|----------------|
| 4 | General requirements | |
| 4.1 | Material cleanliness | C |
| 4.7 | Edges | C |
| 4.8 | Points and metallic wires | C |
| 4.9 | Protruding parts | C |
| 6 | Packaging | C |
| 7 | Warnings, markings and instructions for use | |
| 7.1 | General | C |
| 7.2 | Toys not intended for children under 36 months | C |

I. EN71 : Part 1 : 2014 (For item B, and D to F only)

| <u>Clause</u> | <u>Title/Description</u> | <u>Remark*</u> |
|---------------|--|----------------|
| 4 | General requirements | |
| 4.1 | Material cleanliness | C |
| 4.7 | Edges | C |
| 4.8 | Points and metallic wires | C |
| 7 | Warnings, markings and instructions for use | |
| 7.1 | General | C |
| 7.2 | Toys not intended for children under 36 months | C |



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Report No : AW0011331(9)

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Test Result :

I. EN71 : Part 1 : 2014 (For item C and G only)

| <u>Clause</u> | <u>Title/Description</u> | <u>Remark*</u> |
|---------------|--|----------------|
| 4 | General requirements | |
| 4.1 | Material cleanliness | C |
| 4.7 | Edges | C |
| 4.8 | Points and metallic wires | C |
| 6 | Packaging | C |
| 7 | Warnings, markings and instructions for use | |
| 7.1 | General | C |
| 7.2 | Toys not intended for children under 36 months | C |

II. EN71 : Part 2 : 2011 + A1 : 2014

| <u>Clause</u> | <u>Title/Description</u> | <u>Remark*</u> |
|---------------|--------------------------|----------------|
| 4.1 | General requirements | C |

Note : No cellulose nitrate and material with same behaviour in fire was detected

* Abbreviation : C = Complied



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Test Result :

III. EN 71 : Part 3 : 2013 + A1 : 2014

Category III – Scraped-off toy material

| Element | Migration limit (mg/kg) | Result (mg/kg) | | | | | |
|--------------------------|----------------------------|----------------|-------|-------|-------|-------|-------|
| | | Sample | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| Aluminium (Al) | 70,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Antimony (Sb) | 560 | <5 | <5 | <5 | <5 | <5 | <5 |
| Arsenic (As) | 47 | <5 | <5 | <5 | <5 | <5 | <5 |
| Barium (Ba) | 18,750 | <20 | <20 | <20 | <20 | <20 | <20 |
| Boron (B) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Cadmium (Cd) | 17 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chromium (III) | 460 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chromium (VI) | 0.2 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Cobalt (Co) | 130 | <5 | <5 | <5 | <5 | <5 | <5 |
| Copper (Cu) | 7,700 | <5 | <5 | <5 | <5 | <5 | <5 |
| Lead (Pb) | 160 | <5 | <5 | <5 | <5 | <5 | <5 |
| Manganese (Mn) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Mercury (Hg) | 94 | <5 | <5 | <5 | <5 | <5 | <5 |
| Nickel (Ni) | 930 | <5 | <5 | <5 | <5 | <5 | <5 |
| Selenium (Se) | 460 | <5 | <5 | <5 | <5 | <5 | <5 |
| Strontium (Sr) | 56,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Tin (Sn) | 180,000 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Organic tin [#] | 12 | <8 | <8 | <8 | <8 | <8 | <8 |
| Zinc (Zn) | 46,000 | <100 | <100 | <100 | <100 | <100 | <100 |



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III. EN 71 : Part 3 : 2013 + A1 : 2014

Category III – Scraped-off toy material

| Element | Migration limit (mg/kg) | Result (mg/kg) | | | | | |
|--------------------------|-------------------------|----------------|-------|-------|-------|-------|-------|
| | | Sample | | | | | |
| | | 7 | 8 | 9 | 10 | 11 | 12 |
| Aluminium (Al) | 70,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Antimony (Sb) | 560 | <5 | <5 | <5 | <5 | <5 | <5 |
| Arsenic (As) | 47 | <5 | <5 | <5 | <5 | <5 | <5 |
| Barium (Ba) | 18,750 | <20 | <20 | <20 | <20 | <20 | <20 |
| Boron (B) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Cadmium (Cd) | 17 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chromium (III) | 460 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chromium (VI) | 0.2 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Cobalt (Co) | 130 | <5 | <5 | <5 | <5 | <5 | <5 |
| Copper (Cu) | 7,700 | <5 | <5 | <5 | <5 | <5 | <5 |
| Lead (Pb) | 160 | <5 | <5 | <5 | <5 | <5 | <5 |
| Manganese (Mn) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Mercury (Hg) | 94 | <5 | <5 | <5 | <5 | <5 | <5 |
| Nickel (Ni) | 930 | <5 | <5 | <5 | <5 | <5 | <5 |
| Selenium (Se) | 460 | <5 | <5 | <5 | <5 | <5 | <5 |
| Strontium (Sr) | 56,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Tin (Sn) | 180,000 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Organic tin [#] | 12 | <8 | <8 | <8 | <8 | <8 | <8 |
| Zinc (Zn) | 46,000 | <100 | <100 | <100 | <100 | <100 | <100 |



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Test Result :

III. EN 71 : Part 3 : 2013 + A1 : 2014

Category III – Scraped-off toy material

| Element | Migration limit (mg/kg) | Result (mg/kg) | | | | | |
|--------------------------|-------------------------|----------------|-------|-------|-------|-------|-------|
| | | Sample | | | | | |
| | | 13 | 14 | 15 | 16 | 17 | 18 |
| Aluminium (Al) | 70,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Antimony (Sb) | 560 | <5 | <5 | <5 | <5 | <5 | <5 |
| Arsenic (As) | 47 | <5 | <5 | <5 | <5 | <5 | <5 |
| Barium (Ba) | 18,750 | <20 | <20 | <20 | <20 | <20 | <20 |
| Boron (B) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Cadmium (Cd) | 17 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chromium (III) | 460 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chromium (VI) | 0.2 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Cobalt (Co) | 130 | <5 | <5 | <5 | <5 | <5 | <5 |
| Copper (Cu) | 7,700 | <5 | <5 | <5 | <5 | <5 | <5 |
| Lead (Pb) | 160 | <5 | <5 | <5 | <5 | <5 | <5 |
| Manganese (Mn) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Mercury (Hg) | 94 | <5 | <5 | <5 | <5 | <5 | <5 |
| Nickel (Ni) | 930 | <5 | <5 | <5 | <5 | <5 | <5 |
| Selenium (Se) | 460 | <5 | <5 | <5 | <5 | <5 | <5 |
| Strontium (Sr) | 56,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Tin (Sn) | 180,000 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Organic tin [#] | 12 | <8 | <8 | <8 | <8 | <8 | <8 |
| Zinc (Zn) | 46,000 | <100 | <100 | <100 | <100 | <100 | <100 |



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Category III – Scraped-off toy material

| Element | Migration limit (mg/kg) | Result (mg/kg) | | | | | |
|--------------------------|-------------------------|----------------|-------|-------|-------|-------|-------|
| | | Sample | | | | | |
| | | 19 | 20 | 21 | 22 | 23 | 24 |
| Aluminium (Al) | 70,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Antimony (Sb) | 560 | <5 | <5 | <5 | <5 | <5 | <5 |
| Arsenic (As) | 47 | <5 | <5 | <5 | <5 | <5 | <5 |
| Barium (Ba) | 18,750 | <20 | <20 | <20 | <20 | <20 | <20 |
| Boron (B) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Cadmium (Cd) | 17 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chromium (III) | 460 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chromium (VI) | 0.2 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Cobalt (Co) | 130 | <5 | <5 | <5 | <5 | <5 | <5 |
| Copper (Cu) | 7,700 | <5 | <5 | <5 | <5 | <5 | <5 |
| Lead (Pb) | 160 | <5 | <5 | <5 | <5 | <5 | <5 |
| Manganese (Mn) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Mercury (Hg) | 94 | <5 | <5 | <5 | <5 | <5 | <5 |
| Nickel (Ni) | 930 | <5 | <5 | <5 | <5 | <5 | <5 |
| Selenium (Se) | 460 | <5 | <5 | <5 | <5 | <5 | <5 |
| Strontium (Sr) | 56,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Tin (Sn) | 180,000 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Organic tin [#] | 12 | <8 | <8 | <8 | <8 | <8 | <8 |
| Zinc (Zn) | 46,000 | <100 | <100 | <100 | <100 | <100 | <100 |



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Test Result :

III. EN 71 : Part 3 : 2013 + A1 : 2014

Category III – Scraped-off toy material

| Element | Migration limit (mg/kg) | Result (mg/kg) | | | | | |
|--------------------------|-------------------------|----------------|-------|-------|-------|-------|-------|
| | | Sample | | | | | |
| | | 25 | 26 | 27 | 28 | 29 | 30 |
| Aluminium (Al) | 70,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Antimony (Sb) | 560 | <5 | <5 | <5 | <5 | <5 | <5 |
| Arsenic (As) | 47 | <5 | <5 | <5 | <5 | <5 | <5 |
| Barium (Ba) | 18,750 | <20 | <20 | <20 | <20 | <20 | <20 |
| Boron (B) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Cadmium (Cd) | 17 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chromium (III) | 460 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chromium (VI) | 0.2 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Cobalt (Co) | 130 | <5 | <5 | <5 | <5 | <5 | <5 |
| Copper (Cu) | 7,700 | <5 | <5 | <5 | <5 | <5 | <5 |
| Lead (Pb) | 160 | <5 | <5 | <5 | <5 | <5 | <5 |
| Manganese (Mn) | 15,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Mercury (Hg) | 94 | <5 | <5 | <5 | <5 | <5 | <5 |
| Nickel (Ni) | 930 | <5 | <5 | <5 | <5 | <5 | <5 |
| Selenium (Se) | 460 | <5 | <5 | <5 | <5 | <5 | <5 |
| Strontium (Sr) | 56,000 | <100 | <100 | <100 | <100 | <100 | <100 |
| Tin (Sn) | 180,000 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Organic tin [#] | 12 | <8 | <8 | <8 | <8 | <8 | <8 |
| Zinc (Zn) | 46,000 | <100 | <100 | <100 | <100 | <100 | <100 |

- Note :
- All results are in mg/kg
 - < denotes less than
 - ≥ denotes greater than or equal to
 - For samples of migrated chromium content lower than migration limit of chromium (VI), no speciation test for chromium (III) and chromium (VI) were conducted. The results were derived from that of total chromium
 - For samples of migrated tin content calculated as tributyl tin lower than migration limit of organic tin, no organic tin test was conducted. Organic tin results were derived from that of total tin
 - [#]Organic tin compounds under investigation are limited to methyltin, butyltin, dibutyltin, tributyltin, tetrabutyltin, mono-octyltin, dioctyltin, dipropyltin, diphenyltin and triphenyltin. Other organic tin compounds may also be present in toys



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Test Result :

III. EN 71 : Part 3 : 2013 + A1 : 2014

Category III – Scraped-off toy material

| Sample | Description | Sample weight |
|--------|--|---------------|
| 1 | Red plastic of red parts | ≥100 mg |
| 2 | Blue plastic of blue parts | ≥100 mg |
| 3 | Yellow plastic of yellow parts | ≥100 mg |
| 4 | Green plastic of green parts | ≥100 mg |
| 5 | Pink plastic of pink parts | ≥100 mg |
| 6 | Sky blue plastic of sky blue parts | ≥100 mg |
| 7 | Orange plastic of orange parts | ≥100 mg |
| 8 | Lime plastic of lime parts | ≥100 mg |
| 9 | White plastic of white parts | ≥100 mg |
| 10 | Black plastic of black parts | ≥100 mg |
| 11 | Brown plastic of brown parts | ≥100 mg |
| 12 | Grey plastic of grey parts | ≥100 mg |
| 13 | Clear plastic of clear parts | ≥100 mg |
| 14 | Clear red plastic of clear red parts | ≥100 mg |
| 15 | Clear blue plastic of clear blue parts | ≥100 mg |
| 16 | Clear yellow plastic of clear yellow parts | ≥100 mg |
| 17 | Greyish blue plastic of wheels | ≥100 mg |
| 18 | Bright black plastic of shaft, shaft of middle wheel | ≥100 mg |
| 19 | Dull white plastic of wheel of mini wheel and middle wheel | ≥100 mg |
| 20 | Black soft plastic of tires of mini wheel and middle wheel | ≥100 mg |
| 21 | Bright black plastic of mini shaft | ≥100 mg |
| 22 | Dull white plastic of headband | ≥100 mg |
| 23 | Bright orange plastic of orange case | ≥100 mg |
| 24 | Bright red plastic of red case | ≥100 mg |
| 25 | Bright blue plastic of blue case | ≥100 mg |
| 26 | Bright pink plastic of pink case | ≥100 mg |
| 27 | Bright green plastic of green case | ≥100 mg |
| 28 | Clear sky blue plastic of cover of small box, large box | ≥100 mg |
| 29 | Dull white plastic of locks of small box, large box | ≥100 mg |
| 30 | Clear plastic of body of small box, large box | ≥100 mg |



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Test Result :

IV. ASTM F963-16

a. Physical and Mechanical Tests (For item A only)

| <u>Clause</u> | <u>Title/Description</u> | <u>Remark*</u> |
|---------------|--|----------------|
| 4.1 | Material Quality – Visual Inspection | C |
| 4.6.3 | Toys intended for children ≥ 3 years but < 6 years 16 CFR 1500.19 Small objects labeling requirement | C |
| 4.7 | Accessible edges 16 CFR 1500.49 Sharp metal or glass edges | C |
| 4.8 | Projections | C |
| 4.9 | Accessible points 16 CFR 1500.48 Sharp points | C |
| 4.12 | Plastic film | C |
| 4.17 | Wheels, tires, and axles | C |
| 5 | Labeling requirements | |
| 5.3 | Safety labeling requirements | C |
| 5.11 | Small objects, small balls, marbles, and balloons 16 CFR 1500.19 | C |
| 5.16 | Promotional materials | C |
| 7 | Producer's markings | |
| 7.1 | Producer's markings | C |



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Test Result :

a. Physical and Mechanical Tests (For item B, and D to F only)

| <u>Clause</u> | <u>Title/Description</u> | <u>Remark*</u> |
|---------------|--|----------------|
| 4.1 | Material Quality – Visual Inspection | C |
| 4.6.3 | Toys intended for children ≥ 3 years but < 6 years 16 CFR 1500.19 Small objects labeling requirement | C |
| 4.7 | Accessible edges 16 CFR 1500.49 Sharp metal or glass edges | C |
| 4.9 | Accessible points 16 CFR 1500.48 Sharp points | C |
| 5 | Labeling requirements | |
| 5.3 | Safety labeling requirements | C |
| 5.11 | Small objects, small balls, marbles, and balloons 16 CFR 1500.19 | C |
| 5.16 | Promotional materials | C |
| 7 | Producer's markings | |
| 7.1 | Producer's markings | C |



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Test Result :

a. Physical and Mechanical Tests (For item C and G only)

| <u>Clause</u> | <u>Title/Description</u> | <u>Remark*</u> |
|---------------|--|----------------|
| 4.1 | Material Quality – Visual Inspection | C |
| 4.6.3 | Toys intended for children ≥ 3 years but < 6 years 16 CFR 1500.19 Small objects labeling requirement | C |
| 4.7 | Accessible edges 16 CFR 1500.49 Sharp metal or glass edges | C |
| 4.9 | Accessible points 16 CFR 1500.48 Sharp points | C |
| 4.12 | Plastic film | C |
| 5 | Labeling requirements | |
| 5.3 | Safety labeling requirements | C |
| 5.11 | Small objects, small balls, marbles, and balloons 16 CFR 1500.19 | C |
| 5.16 | Promotional materials | C |
| 7 | Producer's markings | |
| 7.1 | Producer's markings | C |

Remark : The sample(s) were subjected to the normal use and abuse tests in according with Clause 8.5 Normal Use Testing, 8.7 Impact test, 8.8 Torque test, 8.9 Tension test, 8.10 Compression test and 8.12 Flexure test whichever was applicable.

Use and abuse test applied

| Test | Age Category, months | Test Parameters | 16 CFR Reference |
|--------------|----------------------|-----------------|------------------|
| Drop test | over 36 to 96 | 4 x 3 ft | 1500.53(b)(3) |
| Torque test | over 36 to 96 | 4 in-lbf | 1500.53(e) |
| Tension test | over 36 to 96 | 15 lbf | 1500.53(f) |



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Test Result :

b. Flammability Test

| <u>Clause</u> | <u>Title/Description</u> | <u>Remark*</u> |
|---------------|---|----------------|
| 4.2 | Flammability 16 CFR 1500.3 (c) (6) (vi) <u>Materials other than textiles</u> Test method : Annex A5 (16 CFR 1500.44) | C |



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No : AW0011331(9)

Date: 08 Mar 2018

Application No : LW005493(0)

Test Result :

c. Heavy Elements Test

| Clause | Title/Description | Remark* |
|----------------|---|---------|
| 4.3.5.2 (2)(a) | Toy substrate materials, total lead content | C |

| | <u>Test Item</u> |
|---------------------------------|------------------|
| | Total Lead |
| Maximum Permissible Level (ppm) | 100(**) |
| Sample | |
| #31 | <15 |
| #32 | <15 |
| #33 | <15 |
| #34 | <15 |
| #35 | <15 |
| #36 | <15 |
| #37 | <15 |
| #38 | <15 |
| #39 | <15 |
| #40 | <15 |

- Note :
- (***) 100 ppm limit applies to product produced on or after 14 Aug 2011
 - All results are in ppm
 - < denotes less than
 - # denotes composite sample

| Sample | Description |
|--------|---|
| #31 | Red plastic of red parts + Blue plastic of blue parts + Yellow plastic of yellow parts |
| #32 | Green plastic of green parts + Pink plastic of pink parts + Sky blue plastic of sky blue parts |
| #33 | Orange plastic of orange parts + Lime plastic of lime parts + White plastic of white parts |
| #34 | Black plastic of black parts + Brown plastic of brown parts + Grey plastic of grey parts |
| #35 | Clear plastic of clear parts + Clear red plastic of clear red parts + Clear blue plastic of clear blue parts |
| #36 | Clear yellow plastic of clear yellow parts + Greyish blue plastic of wheel + Bright black plastic of shaft, shaft of middle wheel |
| #37 | Dull white plastic of wheel of mini wheel and middle wheel + Black soft plastic of tires of mini wheel and middle wheel + Bright black plastic of mini shaft |
| #38 | Dull white plastic of headband + Bright orange plastic of orange case + Bright red plastic of red case |
| #39 | Bright blue plastic of blue case + Bright pink plastic of pink case + Bright green plastic of green case |
| #40 | Clear sky blue plastic of cover of small box, large box + Dull white plastic of locks of small box, large box + Clear plastic of body of small box, large box |



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TEST REPORT

Report No : AW0011331(9)

Date: 08 Mar 2018

Application No : LW005493(0)

Test Result :

c. Heavy Elements Test

| <u>Clause</u> | <u>Title/Description</u> | <u>Remark*</u> |
|----------------|---|----------------|
| 4.3.5.2 (2)(b) | Toy substrate materials, soluble heavy elements | C |

| | <u>Test Item</u> | | | | | | | |
|---------------------------------|------------------|----|-----|----|----|----|----|------|
| | As | Hg | Se | Cd | Sb | Pb | Cr | Ba |
| Maximum Permissible Level (ppm) | 25 | 60 | 500 | 75 | 60 | 90 | 60 | 1000 |
| Sample | | | | | | | | |
| 41 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 42 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 43 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 44 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 45 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 46 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 47 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 48 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 49 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 50 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 51 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 52 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 53 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 54 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 55 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 56 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 57 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 58 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 59 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 60 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 61 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 62 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 63 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 64 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 65 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 66 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 67 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 68 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 69 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |
| 70 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <20 |



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TEST REPORT

Report No : AW0011331(9)

Date: 08 Mar 2018

Application No : LW005493(0)

Test Result :

c. Heavy Elements Test

| Clause | Title/Description | Remark* |
|----------------|---|---------|
| 4.3.5.2 (2)(b) | Toy substrate materials, soluble heavy elements | C |

- Note :
- All results are in ppm
 - ppm denotes part per million by weight
 - < denotes less than
 - ≥ denotes greater than or equal to
 - As = Arsenic; Hg = Mercury; Se = Selenium; Cd = Cadmium; Sb = Antimony; Pb = Lead; Cr = Chromium; Ba = Barium

| Sample | Description | Sample weight |
|--------|--|---------------|
| 41 | Red plastic of red parts | ≥100 mg |
| 42 | Blue plastic of blue parts | ≥100 mg |
| 43 | Yellow plastic of yellow parts | ≥100 mg |
| 44 | Green plastic of green parts | ≥100 mg |
| 45 | Pink plastic of pink parts | ≥100 mg |
| 46 | Sky blue plastic of sky blue parts | ≥100 mg |
| 47 | Orange plastic of orange parts | ≥100 mg |
| 48 | Lime plastic of lime parts | ≥100 mg |
| 49 | White plastic of white parts | ≥100 mg |
| 50 | Black plastic of black parts | ≥100 mg |
| 51 | Brown plastic of brown parts | ≥100 mg |
| 52 | Grey plastic of grey parts | ≥100 mg |
| 53 | Clear plastic of clear parts | ≥100 mg |
| 54 | Clear red plastic of clear red parts | ≥100 mg |
| 55 | Clear blue plastic of clear blue parts | ≥100 mg |
| 56 | Clear yellow plastic of clear yellow parts | ≥100 mg |
| 57 | Greyish blue plastic of wheels | ≥100 mg |
| 58 | Bright black plastic of shaft, shaft of middle wheel | ≥100 mg |
| 59 | Dull white plastic of wheel of mini wheel and middle wheel | ≥100 mg |
| 60 | Black soft plastic of tires of mini wheel and middle wheel | ≥100 mg |
| 61 | Bright black plastic of mini shaft | ≥100 mg |
| 62 | Dull white plastic of headband | ≥100 mg |
| 63 | Bright orange plastic of orange case | ≥100 mg |
| 64 | Bright red plastic of red case | ≥100 mg |
| 65 | Bright blue plastic of blue case | ≥100 mg |
| 66 | Bright pink plastic of pink case | ≥100 mg |
| 67 | Bright green plastic of green case | ≥100 mg |
| 68 | Clear sky blue plastic of cover of small box, large box | ≥100 mg |
| 69 | Dull white plastic of locks of small box, large box | ≥100 mg |
| 70 | Clear plastic of body of small box, large box | ≥100 mg |

* Abbreviation : C = Complied



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TEST REPORT

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Date: 08 Mar 2018

Application No : LW005493(0)

Test Result :

V. Lead content in accordance with U.S. Consumer Product Safety Improvement Act of 2008 – Sec. 101 : Children’s Products Containing Lead; Lead Paint Rule

For materials and substrate

| | Test Item |
|---------------------------|------------|
| | Total Lead |
| Permissible Limit (mg/kg) | 100(*) |
| Sample | |
| #71 | <15 |
| #72 | <15 |
| #73 | <15 |
| #74 | <15 |
| #75 | <15 |
| #76 | <15 |
| #77 | <15 |
| #78 | <15 |
| #79 | <15 |
| #80 | <15 |

- Note :
- (*) 100 ppm limit applies to product produced on or after 14 Aug 2011
 - All results are in mg/kg
 - < denotes less than
 - # denotes composite sample

| Sample | Description |
|--------|---|
| #71 | Red plastic of red parts + Blue plastic of blue parts + Yellow plastic of yellow parts |
| #72 | Green plastic of green parts + Pink plastic of pink parts + Sky blue plastic of sky blue parts |
| #73 | Orange plastic of orange parts + Lime plastic of lime parts + White plastic of white parts |
| #74 | Black plastic of black parts + Brown plastic of brown parts + Grey plastic of grey parts |
| #75 | Clear plastic of clear parts + Clear red plastic of clear red parts + Clear blue plastic of clear blue parts |
| #76 | Clear yellow plastic of clear yellow parts + Greyish blue plastic of wheel + Bright black plastic of shaft, shaft of middle wheel |
| #77 | Dull white plastic of wheel of mini wheel and middle wheel + Black soft plastic of tires of mini wheel and middle wheel + Bright black plastic of mini shaft |
| #78 | Dull white plastic of headband + Bright orange plastic of orange case + Bright red plastic of red case |
| #79 | Bright blue plastic of blue case + Bright pink plastic of pink case + Bright green plastic of green case |
| #80 | Clear sky blue plastic of cover of small box, large box + Dull white plastic of locks of small box, large box + Clear plastic of body of small box, large box |



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TEST REPORT

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Test Result :

VI. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment Regulation (EU) No. 494/2011 and No. 835/2012 - Cadmium content (formerly Directive 91/338/EEC).

For plastic material

| | <u>Test item</u> |
|-----------------------------------|------------------|
| | Total Cadmium |
| Maximum permissible level (mg/kg) | 100 |
| Sample | |
| #81 | <5 |
| #82 | <5 |
| #83 | <5 |
| #84 | <5 |
| #85 | <5 |
| #86 | <5 |
| #87 | <5 |
| #88 | <5 |
| #89 | <5 |
| #90 | <5 |

Note :
 • All results are in mg/kg
 • < denotes less than
 • # denotes composite sample

| Sample | Description |
|--------|---|
| #81 | Red plastic of red parts + Blue plastic of blue parts + Yellow plastic of yellow parts |
| #82 | Green plastic of green parts + Pink plastic of pink parts + Sky blue plastic of sky blue parts |
| #83 | Orange plastic of orange parts + Lime plastic of lime parts + White plastic of white parts |
| #84 | Black plastic of black parts + Brown plastic of brown parts + Grey plastic of grey parts |
| #85 | Clear plastic of clear parts + Clear red plastic of clear red parts + Clear blue plastic of clear blue parts |
| #86 | Clear yellow plastic of clear yellow parts + Greyish blue plastic of wheel + Bright black plastic of shaft, shaft of middle wheel |
| #87 | Dull white plastic of wheel of mini wheel and middle wheel + Black soft plastic of tires of mini wheel and middle wheel + Bright black plastic of mini shaft |
| #88 | Dull white plastic of headband + Bright orange plastic of orange case + Bright red plastic of red case |
| #89 | Bright blue plastic of blue case + Bright pink plastic of pink case + Bright green plastic of green case |
| #90 | Clear sky blue plastic of cover of small box, large box + Dull white plastic of locks of small box, large box + Clear plastic of body of small box, large box |



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TEST REPORT

Report No : AW0011331(9)

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Application No : LW005493(0)

Test Result :

VII & VIII. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII - Phthalates contents and U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 108

| Sample | Test Item | | | | | |
|--------|-----------|-------|-------|-------|-------|-------|
| | DEHP | DBP | BBP | DINP | DIDP | DNOP |
| #91 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| #92 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| #93 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| #94 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| #95 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| #96 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| #97 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| #98 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| #99 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| #100 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

Requirement of Regulation (EC) No. 1907/2006, Annex XVII

1. Concentration of DEHP, DBP and BBP of plasticized materials in toys and childcare articles shall not exceed 0.1% by weight.
2. Concentration of DINP, DIDP and DNOP of plasticized materials in toys and childcare articles which can be placed in the mouth by children shall not exceed 0.1% by weight.

Requirement of CPSIA

It shall be unlawful for any person to manufacture for sale, offer for sale, distribute in commerce, or import into the United States :

1. Any children's toy or child care article that contains concentrations of more than 0.1% of DEHP, DBP or BBP.
2. Any children's toy that can be placed in a child's mouth or child care article that contains concentrations of more than 0.1% of DINP, DIDP or DNOP.

- Note :
- All results are in % w/w
 - % w/w denotes percentage by weight
 - < denotes less than
 - # denotes composite sample
 - DEHP = Di (2-ethylhexyl) Phthalate; DBP = Dibutyl Phthalate; BBP = Butyl Benzyl Phthalate; DINP = Diisononyl Phthalate; DIDP = Diisodecyl Phthalate; DNOP = Di-n-octyl Phthalate



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Test Result :

VII & VIII. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII
- Phthalates contents and U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 108

| Sample | Description |
|--------|---|
| #91 | Red plastic of red parts + Blue plastic of blue parts + Yellow plastic of yellow parts |
| #92 | Green plastic of green parts + Pink plastic of pink parts + Sky blue plastic of sky blue parts |
| #93 | Orange plastic of orange parts + Lime plastic of lime parts + White plastic of white parts |
| #94 | Black plastic of black parts + Brown plastic of brown parts + Grey plastic of grey parts |
| #95 | Clear plastic of clear parts + Clear red plastic of clear red parts + Clear blue plastic of clear blue parts |
| #96 | Clear yellow plastic of clear yellow parts + Greyish blue plastic of wheel + Bright black plastic of shaft, shaft of middle wheel |
| #97 | Dull white plastic of wheel of mini wheel and middle wheel + Black soft plastic of tires of mini wheel and middle wheel+ Bright black plastic of mini shaft |
| #98 | Dull white plastic of headband + Bright orange plastic of orange case + Bright red plastic of red case |
| #99 | Bright blue plastic of blue case + Bright pink plastic of pink case + Bright green plastic of green case |
| #100 | Clear sky blue plastic of cover of small box, large box + Dull white plastic of locks of small box, large box + Clear plastic of body of small box, large box |



CMA Testing and Certification Laboratories

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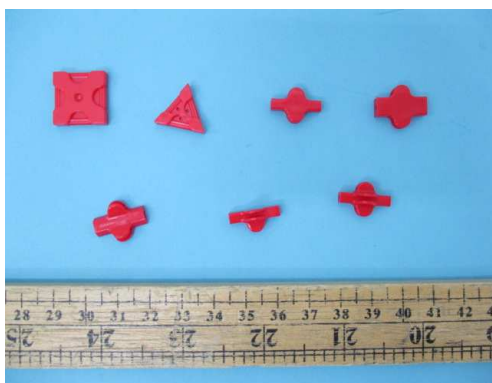
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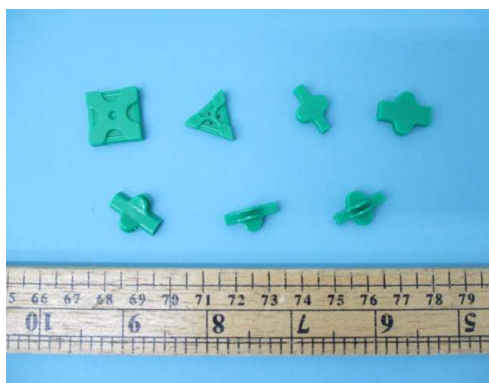
LaQ RED No.1-7



LaQ BLUE No.1-7



LaQ YELLOW No.1-7



LaQ GREEN No.1-7



LaQ PINK No.1-7



LaQ SKY BLUE No.1-7



CMA Testing and Certification Laboratories

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LaQ ORANGE No.1-7



LaQ LIME No.1-7



LaQ WHITE No.1-7



LaQ BLACK No.1-7



LaQ BROWN No.1-7



LaQ GRAY No.1-7



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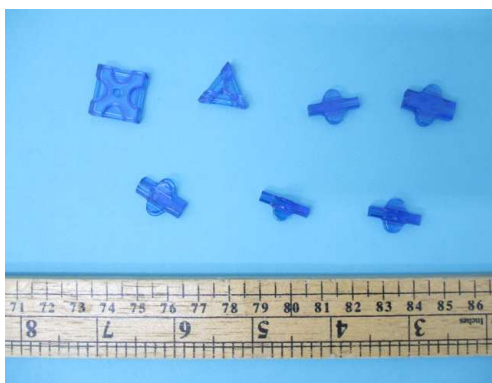
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LaQ CLEAR No.1-7



LaQ CLEAR RED No.1-7



LaQ CLEAR BLUE No.1-7



LaQ CLEAR YELLOW No.1-7



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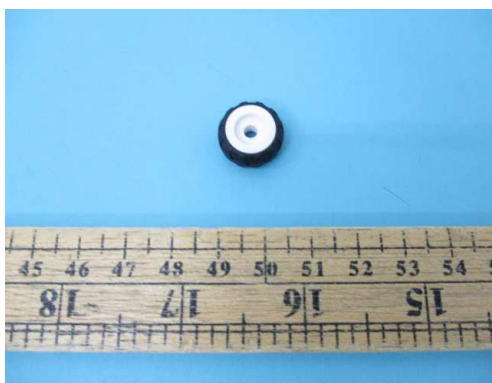
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LaQ HAMACRON CONSTRUCTOR WHEEL



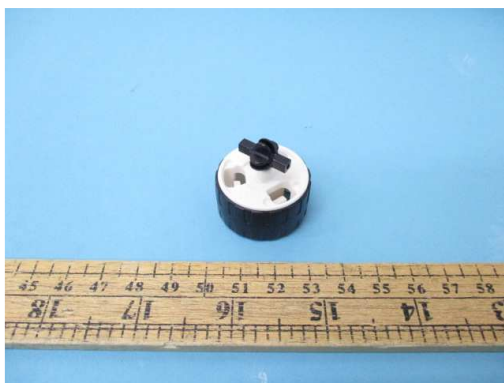
LaQ HAMACRON CONSTRUCTOR SHAFT



LaQ HAMACRON CONSTRUCTOR MINI WHEEL



LaQ HAMACRON CONSTRUCTOR MINI SHAFT



LaQ HAMACRON CONSTRUCTOR MIDDLE WHEEL



LaQ SWEET COLLECTION HEADBAND



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Blister Case ORANGE



Blister Case RED



Blister Case BLUE



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Blister Case PINK



Blister Case LIME



Plastic Container (Small)

Plastic Container (Large)



CMA Testing and Certification Laboratories

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CMA Testing and Certification Laboratories

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(B)



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