

TEST REPORT

Test Report # 19H-007132 Date of Report Issue: October 25, 2019
Date of Sample Received: September 20, 2019 Pages: Page 1 of 22

CLIENT INFORMATION:

Company: Hit Promotional Products
Recipient: Nathan Cotter
Recipient Email: ncotter@hitpromo.net



SAMPLE INFORMATION:

Description: Total Recall Memory Game
Assortment: 1 color
SKU No.: 0719
Factory No.: 127851
Country of Distribution: United States, Canada
Quantity Submitted: 5 pcs + 1 lot (Paint, Parts)
Testing Period: 09/21/2019 – 10/21/2019
10/25/2019 – 10/25/2019
Purchase Order Number: 335076
Agent: Growth-Sonic
Country of Origin: China
Labeled Age Grade: -
Recommended Age Grade: Over 3 years of age
Tested Age Grade: Over 3 years of age

OVERALL RESULT:

 **PASS**

Refer to page 2 for test result summary and appropriate notes.

QIMA Testing (HK) Limited



Loska Yeung Lok Ka
Assistant Manager, Chemical Laboratory

QIMA Testing (HK) Limited



Ricky Cheung Chin Yeung
Manager, Physical Laboratory

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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Total Elements Screening in Substrate Materials
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	CPSIA Section 101, Total Lead in Substrate Materials
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)
PASS	Client’s Requirement, Phthalates Content (DBP, BBP, DEHP, DINP, DHEXP/DnHP, DCHP, DIBP, DPENP)
PASS	US Public Law 104-142 Title II, Mercury-Containing Battery Management Act ^{#φ}
PASS	Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 – Total Elements Screening in Paints and Surface Coatings
PASS	Canadian Toys Regulations SOR/2011-17 as Amended, Item 27(3)(C) Total Elements Screening in Plastic Materials
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content
PASS	Canadian Products Containing Mercury Regulations (SOR/2014-254), Total Mercury in Battery ^{#φ}
PASS	CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-17, Mechanical Hazards 16 CFR 1500, Federal Hazardous Substances Act (FHSA), Mechanical Hazards
PASS	ASTM F963-17 Labeling
PASS	16 CFR 1500.44 and ASTM F963-17, Section 4.2, Flammability of Solids
PASS	CPSIA Section 103, Tracking Labels for Children’s Products [#]
PASS	Canadian Toy Regulations SOR/2011-17 As Amended, Mechanical Hazards Requirements [#]
PASS	Canadian Toy Regulations SOR/2011-17 As Amended, Item 21 Celluloid or Cellulose Nitrate
PASS	47 CFR 15-FCC (D.C.)-Supplier’s Declaration of Conformity (SDoC) ^{#φ}
PASS	ICES 003-Information Technology Equipment (D.C.)-EMC Testing ^{#φ}

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Remark:

CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Total Elements Screening in Paint and Similar Surface Coatings was not conducted as specimen mass found on single sample less than 10 milligrams.

Per client's request, FCC Labeling Requirement was excluded.

See Appendix I

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Total Elements Screening in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Substrate Materials Other Than Modeling Clay

Specimen No.	2+3+4	5+6+7	---	---	---	Soluble Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Antimony (Sb)	ND	ND	---	---	---	60
Total Arsenic (As)	ND	ND	---	---	---	25
Total Barium (Ba)	ND	140	---	---	---	1000
Total Cadmium (Cd)	ND	ND	---	---	---	75
Total Chromium (Cr)	ND	ND	---	---	---	60
Total Lead (Pb)	ND	ND	---	---	---	90
Total Mercury (Hg)	ND	ND	---	---	---	60
Total Selenium (Se)	ND	ND	---	---	---	500
Conclusion	PASS	PASS	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Pb, Hg = 20ppm; Se = 50ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

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DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E-1003-09.1
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	22	---	---	---	---	90
Conclusion	PASS	---	---	---	---	

Note:
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 20 ppm)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E-1003-09.1
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	22	---	---	---	---	90
Conclusion	PASS	---	---	---	---	

Note:
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 20 ppm)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
 The specification is quoted from client's requirement.

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DETAILED RESULTS:

CPSIA Section 101, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2+3+4	5+6+7	8	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	100
Conclusion	PASS	PASS	PASS	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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DETAILED RESULTS:

California Proposition 65, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2+3+4	5+6+7	8	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	100
Conclusion	PASS	PASS	PASS	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

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DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2+3+4	5+6+7	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	---	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	---	1000
Conclusion		PASS	PASS	PASS	---	

Note:
 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)
 LT = Less than
 ND = Not detected (Reporting Limit = 300 mg/kg)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
 The specification is quoted from client's requirement.

DETAILED RESULTS:

16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2+3+4	5+6+7	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	---	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	---	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	---	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	---	1000
Conclusion		PASS	PASS	PASS	---	

Note:
 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)
 LT = Less than
 ND = Not detected (Reporting Limit = 300 mg/kg)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

Client's Requirement, Phthalates Content (DBP, BBP, DEHP, DINP, DHEXP/DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2+3+4	5+6+7	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	---	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	---	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	---	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	---	1000
Conclusion		PASS	PASS	PASS	---	

Note:
 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)
 LT = Less than
 ND = Not detected (Reporting Limit = 300 mg/kg)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

US Public Law 104-142 Title II, Mercury-Containing Battery Management Act

Test Method: In-House Method^{#φ}
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Alkaline Manganese Button Cell

Specimen No.	9	---	---	---	---	Total Limit (mg/cell)
Test Item	Result (mg/cell)	Result (mg/cell)	Result (mg/cell)	Result (mg/cell)	Result (mg/cell)	
Total Mercury (Hg)	ND	---	---	---	---	25
Conclusion	PASS	---	---	---	---	

Note:
 mg/cell = milligram per cell
 LT = Less than
 ND = Not detected (Reporting Limit = 5 mg/cell)

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DETAILED RESULTS:

Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 – Total Elements Screening in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Leachable
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Antimony (Sb)	ND	---	---	---	---	1000
Total Arsenic (As)	ND	---	---	---	---	1000
Total Barium (Ba)	24	---	---	---	---	1000
Total Cadmium (Cd)	ND	---	---	---	---	1000
Total Lead (Pb)	22	---	---	---	---	90*
Total Mercury (Hg)	ND	---	---	---	---	10*
Total Selenium (Se)	ND	---	---	---	---	1000
Conclusion	PASS	---	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Pb, Hg = 10 ppm; Sb, As, Ba, Cd, Se = 50 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

*Total limit

The results of total elements screening did not exceed the limits of leachable elements, therefore further analysis of leachable elements was not conducted.

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DETAILED RESULTS:

Canadian Toys Regulations SOR/2011-17 as Amended, Item 27(3)(C) Total Elements Screening in Plastic Materials

Test Method: ASTM F963-17 Clause 8.3.1
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2+3+4	5+6+7	---	---	---	Leachable
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Antimony (Sb)	ND	ND	---	---	---	1000
Total Arsenic (As)	ND	ND	---	---	---	1000
Total Barium (Ba)	ND	140	---	---	---	1000
Total Cadmium (Cd)	ND	ND	---	---	---	1000
Total Lead (Pb)	LT 20	LT 20	---	---	---	90*
Total Mercury (Hg)	ND	ND	---	---	---	10*
Total Selenium (Se)	ND	ND	---	---	---	1000
Conclusion	PASS	PASS	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Pb, Hg = 10 ppm; Sb, As, Ba, Cd, Se = 50 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

*Total limit

The results of total elements screening did not exceed the limits of leachable elements, therefore further analysis of leachable elements was not conducted.

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DETAILED RESULTS:

Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

Test Method: ASTM F963-17 Clause 8.3.1
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	2+3+4	5+6+7	8	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	22	ND	ND	ND	---	90
Conclusion	PASS	PASS	PASS	PASS	---	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 20 mg/kg)

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DETAILED RESULTS:

Canadian Products Containing Mercury Regulations (SOR/2014-254), Total Mercury in Battery

Test Method: In-House Method^{#φ}
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	9	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Mercury (Hg)	ND	---	---	---	---	5
Conclusion	PASS	---	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 2 ppm)

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 The above test(s) is/are accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board (ANAB) according to certificate and scope of accreditation (Certificate # AT-1500.) Test(s) marked with '#' is/are not covered under the scope of accreditation. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the [QIMA decision rule](#).

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DETAILED RESULTS:

**CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-17, Mechanical Hazards
16 CFR 1500, Federal Hazardous Substances Act (FHSA), Mechanical Hazards**

Mechanical hazards evaluated as described in 16 CFR 1500.51-1500.53 and ASTM F963-17, as applicable.

Test	Observation	Conclusion
Impact	No Sharp Edge or Sharp Point	PASS
Torque	No Sharp Edge or Sharp Point	PASS
Tension	No Sharp Edge or Sharp Point	PASS

Other Applicable ASTM F963-17 Sections

Section	Test	Conclusion
4.1	Material Quality	PASS
4.5	Sound Producing Toys	PASS
4.7	Accessible Edges	PASS
4.9	Accessible Points	PASS
4.11	Nails and Fasteners	PASS
4.25	Battery Operated Toys	PASS
7.1	Producers Markings	PASS

16 CFR 1500.44 and ASTM F963-17, Section 4.2, Flammability of Solids

Test	Observation	Conclusion
Flammability of Solids	No Ignition	PASS

CPSIA Section 103, Tracking Labels for Children’s Products[#]

Requirement	Observation	Conclusion
Manufacturer or private labeler listed, location & date of manufacture, including batch, run number and/or other identifying characteristics	Information was present.	PASS

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DETAILED RESULTS:

Canadian Toy Regulations SOR/2011-17 as Amended, Mechanical Hazards Requirements[#]

Test	Observation	Conclusion
Impact	No Sharp Edge or Sharp Point	PASS
Push/Pull	No Sharp Edge or Sharp Point	PASS

Section	Requirement	Conclusion
8	Metal Edges	PASS
10	Plastic Edges	PASS
13	Fasteners	PASS
19	Decibel Limit	PASS
20 [#]	Heated Surfaces, Parts or Substances	PASS

Canadian Toy Regulations SOR/2011-17 as Amended, Item 21 Celluloid or Cellulose Nitrate

(Method: Visual Observation)

Test	Observation	Conclusion
Cellulose Nitrate	No visual signs of Cellulose Nitrate.	PASS

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, Hong Kong ♦ Tel: (852)3185 8000.
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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	White coating	On tracking information
2	Purple plastic	Button
3	Yellow plastic	Button
4	Red plastic	Button
5	Blue plastic	Button
6	Green plastic	Button
7	Black plastic	Case/ cover of battery compartment
8	Silvery metal	Screw on cover of battery compartment
9	Silvery button cell	Battery

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DATE CODE PHOTO:



P01

QIMA Testing (HK) Limited ♦ 3/F Liven House, No. 61 – 63 King Yip Street, Kwun Tong, Kowloon, Hong Kong ♦ Tel: (852)3185 8000.
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Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

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SAMPLE PHOTO:



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Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

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Appendix I

47 CFR 15-FCC (D.C.)-Supplier's Declaration of Conformity (SDoC) and ICES 003-Information Technology Equipment (D.C.)-EMC Testing Test Report from the CMA Testing and Certification Laboratories, Test Report No. AY0054640(8), AY0054650(9).

-End Report-

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The above test(s) is/are accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board (ANAB) according to certificate and scope of accreditation (Certificate # AT-1500.) Test(s) marked with '#' is/are not covered under the scope of accreditation. ANAB is recognized by ILAC, APAC and IAAC as a signatory of multilateral recognition arrangements that facilitate acceptance of test internationally.

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CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8) Date : 03 Oct 2019

Application No. : LY031867(3)

Applicant : Hit Promotional Products
7150 Bryan Dairy Rd., Largo, FL, 33777, USA

Sample Description : One(1) item of submitted sample stated to be Total Recall Memory Game
Sample registration No. : RY017989-001
Supply voltage : 3 pcs x 1.5V Button cell size batteries
No. of submitted sample : Two (2) piece (s)

Date Received : 26 Sep 2019.

Test Period : 26 Sep 2019 to 02 Oct 2019.

Test Requested : FCC Part 15 Supplier's Declaration of Conformity (SDoC).

Test Standard : 47 CFR Part 15 (02 Nov 2017)
ANSI C63.4 – 2014

Test Result : See attached sheet(s) from page 2 to 12.

Conclusion : The emission of submitted sample was found to comply with technical requirement of FCC Part 15 Subpart B.

Remark : The required compliance information and labeling requirements given in test report appendix I shall be marked on user manual and device at the time of marketing or importation.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____


Mr. WONG Lap-pong, Andrew
Manager

Page 1 of 12

Document name: FCC SDoC - Document Ref No: RT-EL-EMC-001 - Issue Date: 01 Dec 2017 - Edition: 1

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CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2014. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2014. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

FCC Accredited Laboratory Designation Number: HK0004



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.
EMI Test Receiver	Rohde & Schwarz	ESCI	100152
Spectrum Analyze	Rohde & Schwarz	FSV 40	100964
Biconical Antenna	Rohde & Schwarz	HK116	837414/004
Log Periodic Antenna	Teseq	UPA6109	43666
Broadband Antenna	Schaffner	CBL6112B	2692
LISN	Rohde & Schwarz	ENV216	101232
Coaxial Cable	Tyco Electronics	RG58C/U	N/A
Coaxial Cable (10m)	Schaffner	RG213/U	N/A
Coaxial Cable (3m)	Suhner	RG214/U	N/A



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

Radiated emissions

Frequency	Uncertainty (U_{lab})
30MHz ~ 200MHz (Horizontal)	4.59dB
30MHz ~ 200MHz (Vertical)	4.49dB
200MHz ~1000MHz (Horizontal)	4.94dB
200MHz ~1000MHz (Vertical)	4.97dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	2.80dB



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

Description of the radiated emission test

Test Procedure:

Radiated emissions measurements are investigated and taken pursuant to the method of ANSI C63.4 – 2014.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Test Result:

All measurement data was indicated in next page and it was found that the EUT meet the FCC requirement.

Environmental conditions:

Mode: Sound and Light On

Parameter	Recorded value	
Ambient temperature:	26.3	° C
Relative humidity:	39.0	%



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15

Mode: Sound and Light On

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB μ V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)	Detector type
120.208	V	8.1	12.9	21.0	43.5	- 22.5	QP
270.672	H	8.1	14.5	22.6	46.0	- 23.4	QP
284.081	V	8.6	14.5	23.1	46.0	- 22.9	QP
530.005	V	5.8	23.3	29.1	46.0	- 16.9	QP
557.849	H	6.2	23.3	29.5	46.0	- 16.5	QP
872.301	H	5.4	28.0	33.4	46.0	- 12.6	QP
873.898	V	5.5	28.0	33.5	46.0	- 12.5	QP

Remark:

- All other readings in the frequency range mentioned in the standard were investigated, and found them well below the readings resented in the table shown above.



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

Appendix I

Supplementary information

for

the User manual, labeling requirements and Compliance information



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

Information to user

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user below:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

For Supplier's Declaration of Conformity

The compliance information statement listed below shall be included in the user's manual or as a separate sheet. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet.

Identification of the product, e.g., name and model number

Name, address and telephone number or Internet contact information, of the responsible party. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

Labeling requirement

According to clause 15.19 (3), all devices shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

When the device is so small or for such use that it is impracticable to label it with the statement specified under paragraph (a) of this section in a font that is four-point or larger, and the device does not have a display that can show electronic labeling, then the information required by this paragraph shall be placed in the user manual and must also either be placed on the device packaging or on a removable label attached to the device.

For Part 2 clause 2.1074(b), devices subject to authorization under clause 2.906 Supplier's Declaration of Conformity may be labeled with the FCC logo on a **voluntary** basis as a visual indication that the product complies with the applicable FCC requirements



The FCC logo should be in a size of type large enough to be readily legible, consistent with the dimensions of the equipment.



CMA Testing and Certification Laboratories

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TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

Appendix II

**Photographs of the test setup
for
the highest emission**



CMA Testing and Certification Laboratories

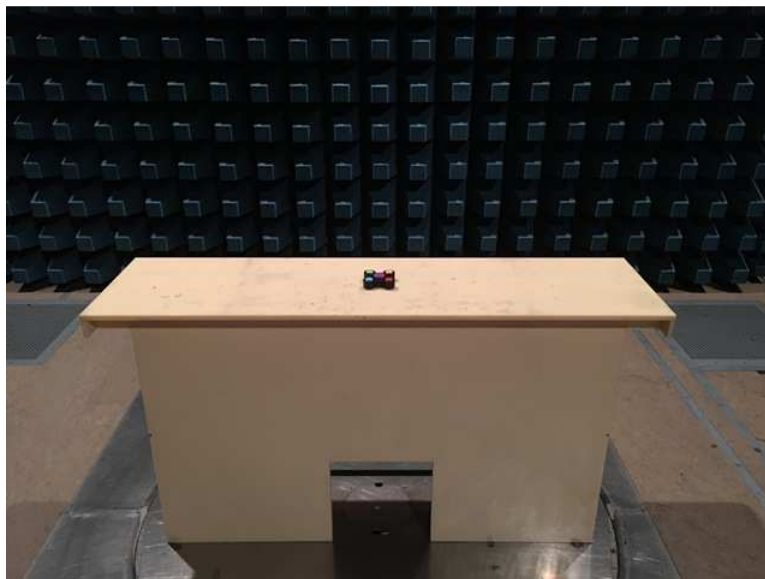
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TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

Photos of the set-up of Radiated Emissions





CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054640(8)

Date : 03 Oct 2019

Outlook of the Sample



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



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054650(9) Date : 03 Oct 2019

Application No. : LY031867(3)

Applicant : Hit Promotional Products
7150 Bryan Dairy Rd., Largo, FL, 33777, USA

Sample Description : One(1) item of submitted sample stated to be Total Recall Memory Game
Sample registration No. : RY017989-001
Rating : 3 pcs x 1.5V Button cell size batteries
No. of submitted sample : 2 piece (s)

Date Received : 26 Sep 2019.

Test Period : 26 Sep 2019 to 02 Oct 2019.

Test Requested : Industry Canada Interference Causing Equipment Standard ICES-003 Issue 6.

Test Standard : Pursuant to the Procedures ANSI C63.4 - 2014.

Test Result : See attached sheet(s) from page 2 to 9.

Conclusion : The submitted sample was found to comply with the class B requirements for digital apparatus under Industry Canada Standard ICES-003 Issue 6.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____


Mr. WONG Lap-pong, Andrew
Manager

Page 1 of 9

Document name: ICES003 - Document Ref No: RT-EL-EMC-018 - Issue Date: 01 Dec 2017 - Edition: 1

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TEST REPORT

Report No. : AY0054650(9)

Date : 03 Oct 2019

Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2014. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 - 2014. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.



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TEST REPORT

Report No. : AY0054650(9)

Date : 03 Oct 2019

List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.
EMI Test Receiver	Rohde & Schwarz	ESCI	100152
Spectrum Analyze	Rohde & Schwarz	FSV 40	100964
Biconical Antenna	Rohde & Schwarz	HK116	837414/004
Log Periodic Antenna	Teseq	UPA6109	43666
Broadband Antenna	Schaffner	CBL6112B	2692
LISN	Rohde & Schwarz	ENV216	101232
Coaxial Cable	Tyco Electronics	RG58C/U	N/A
Coaxial Cable (10m)	Schaffner	RG213/U	N/A
Coaxial Cable (3m)	Suhner	RG214/U	N/A



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TEST REPORT

Report No. : AY0054650(9)

Date : 03 Oct 2019

Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

Radiated emissions

Frequency	Uncertainty (U_{lab})
30MHz ~ 200MHz (Horizontal)	4.59dB
30MHz ~ 200MHz (Vertical)	4.49dB
200MHz ~1000MHz (Horizontal)	4.94dB
200MHz ~1000MHz (Vertical)	4.97dB

Conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	2.80dB



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054650(9)

Date : 03 Oct 2019

Description of the radiated emission test

Test Procedure :

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2014.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

Measurement :

The Peak measurements were performed on the test site at 3m test distance from the antenna to the test sample with the sample operating continuously.

Test Result :

All measurement data was indicated in next page and it was found that the EUT meet the ICES-003 Issue 6 requirement.

Environmental conditions:

Mode: Sound and Light On

Parameter	Recorded value
Ambient temperature:	26.3 °C
Relative humidity:	39.0 %

Remark: According to ANSI C63.4, measurements with the peak detector of an instrument are permissible to demonstrate compliance of an EUT, because peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak detector.



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054650(9)

Date : 03 Oct 2019

Measurement data

Radiated emission

pursuant to

the requirement of ICES-003 Issue 6

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB μ V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
120.208	V	8.1	12.9	21.0	43.5	- 22.5
270.672	H	8.1	14.5	22.6	46.0	- 23.4
284.081	V	8.6	14.5	23.1	46.0	- 22.9
530.005	V	5.8	23.3	29.1	46.0	- 16.9
557.849	H	6.2	23.3	29.5	46.0	- 16.5
872.301	H	5.4	28.0	33.4	46.0	- 12.6
873.898	V	5.5	28.0	33.5	46.0	- 12.5



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054650(9)

Date : 03 Oct 2019

Appendix I

Photographs of the test setup

for

the highest emission



CMA Testing and Certification Laboratories

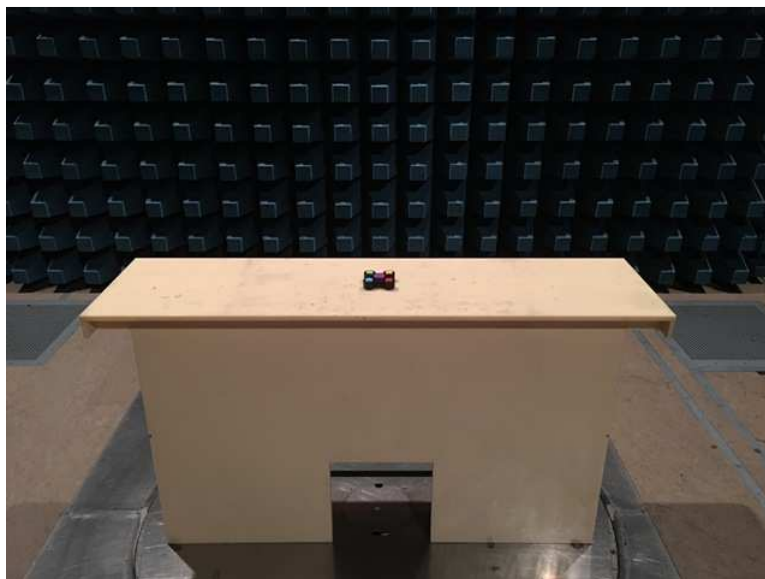
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TEST REPORT

Report No. : AY0054650(9)

Date : 03 Oct 2019

Photos of the set-up of Radiated Emissions





CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AY0054650(9)

Date : 03 Oct 2019

Outlook of the Sample



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