



TEST REPORT

Report No.: CCI230800532EN-1

Report Date: Aug. 29, 2023

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Applicant : Razer Inc.

Address : 9 Pasteur, Suite 100, Irvine, CA92618, USA.

(The following sample(s) was (were) submitted and identified by client as)

Sample Name : Digital Microphone

Model/Item No. : RZ19-0505,RZ19-0505XXXX-XXXX(X Can be 0-9,A-Z,or Blank)

Test Period : From Aug. 21, 2023 to Aug. 29, 2023

Tests Conducted : As requested by the applicant, for details refer to next page(s).

Executive Summary:

No.	TESTED SAMPLE	STANDARD / REQUIREMENT	CONCLUSION
1	Tested material(s) of submitted sample(s)	Pb, Cd, Hg, CrVI, PBBs and PBDEs - Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 amended by Commission Delegated Directive (EU) 2015/863 of 31 March 2015 and other subsequent amendments	PASS
2	Tested material(s) of submitted sample(s)	Phthalates - Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 amended by Commission Delegated Directive (EU) 2015/863 of 31 March 2015 and other subsequent amendments	PASS

Signed for and on behalf of
Compliance Control Institute (Guangzhou) Co., Ltd.

Approved by: _____

Pascal SHI/Technical Director

Compliance Control Institute (Guangzhou) Co., Ltd.

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TESTS CONDUCTED:

1 Pb, Cd, Hg, Cr (VI), PBBs and PBDEs

Test Method: IEC62321-3-1:2013, IEC62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-6:2015,

IEC62321-7-1:2015, IEC 62321-7-2:2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

No.	Specimen Description	Test Results (mg/kg) ^{(1) (2)}					Conclusion	Comments
		Pb	Cd	Hg	Cr (VI)	PBBs & PBDEs		
1	Silvery metal with black coating	BL	BL	BL	BL	NA	PASS	/
2	Black coating	BL	BL	BL	BL	BL	PASS	/
3	Black plastic	BL	BL	BL	BL	BL	PASS	/
4	Black plastic	BL	BL	BL	BL	BL	PASS	/
5	Black metal	BL	BL	BL	BL	NA	PASS	/
6	Black plastic	BL	BL	BL	BL	BL	PASS	/
7	Gun metal	BL	BL	BL	BL	NA	PASS	/
8	Green plastic	BL	BL	BL	BL	BL	PASS	/
9	Silvery metal	BL	BL	BL	BL	NA	PASS	/
10	Silvery metal	BL	BL	BL	BL	NA	PASS	/
11	Transparent plastic	BL	BL	BL	BL	BL	PASS	/
12	Black soft plastic	BL	BL	BL	BL	BL	PASS	/
13	Black plastic	BL	BL	BL	BL	BL	PASS	/
14	Gun metal	BL	BL	BL	BL	NA	PASS	/
15	Green plastic	BL	BL	BL	BL	BL	PASS	/
16	Golden metal	BL	BL	BL	BL	NA	PASS	/

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No.	Specimen Description	Test Results (mg/kg) ⁽¹⁾ ⁽²⁾					Conclusion	Comments
		Pb	Cd	Hg	Cr (VI)	PBBs & PBDEs		
17	Black plastic	BL	BL	BL	BL	BL	PASS	/
18	Silvery metal	BL	BL	BL	BL	NA	PASS	/
19	Silver foil	BL	BL	BL	BL	NA	PASS	/
20	White fiber	BL	BL	BL	BL	BL	PASS	/
21	Green plastic	BL	BL	BL	BL	BL	PASS	/
22	White plastic	BL	BL	BL	BL	BL	PASS	/
23	Red plastic	BL	BL	BL	BL	BL	PASS	/
24	Black plastic	BL	BL	BL	BL	BL	PASS	/
25	Silvery metal	BL	BL	BL	Negative	NA	PASS	/
26	Silvery metal	BL	BL	BL	BL	NA	PASS	/
27	Silvery metal	BL	BL	BL	BL	NA	PASS	/
28	Black foam with glue	BL	BL	BL	BL	BL	PASS	/
29	Semitransparent plastic with glue	BL	BL	BL	BL	BL	PASS	/
30	Semitransparent plastic	BL	BL	BL	BL	BL	PASS	/
31	Black foam	BL	BL	BL	BL	BL	PASS	/
32	Black metal	BL	BL	BL	BL	NA	PASS	/
33	Black metal	BL	BL	BL	BL	NA	PASS	/
34	Silvery metal	BL	BL	BL	BL	NA	PASS	/

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No.	Specimen Description	Test Results (mg/kg) ⁽¹⁾ ⁽²⁾					Conclusion	Comments
		Pb	Cd	Hg	Cr (VI)	PBBs & PBDEs		
35	Black solid	BL	BL	BL	BL	BL	PASS	/
36	Green PCB with white printing	BL	BL	BL	BL	BL	PASS	/
37	Green PCB with white printing	BL	BL	BL	BL	BL	PASS	/
38	Transparent plastic	BL	BL	BL	BL	BL	PASS	/
39	White plastic	BL	BL	BL	BL	BL	PASS	/
40	Silvery metal	BL	BL	BL	BL	NA	PASS	/
41	Red/white/black plastic	BL	BL	BL	BL	BL	PASS	/
42	Silvery metal	BL	BL	BL	Negative	NA	PASS	/
43	Black soft plastic	BL	BL	BL	BL	BL	PASS	/
44	Black plastic	BL	BL	BL	BL	BL	PASS	/
45	Brown solid	BL	BL	BL	BL	BL	PASS	/
46	Black solid	BL	BL	BL	BL	BL	PASS	/
47	Silvery metal with black printing	BL	BL	BL	BL	NA	PASS	/
48	Black soft plastic	BL	BL	BL	BL	BL	PASS	/
49	Transparent plastic with glue	BL	BL	BL	BL	BL	PASS	/
50	Brown paper	BL	BL	BL	BL	BL	PASS	/
51	Grey foil	BL	BL	BL	BL	NA	PASS	/
52	Silvery metal	BL	BL	BL	BL	NA	PASS	/

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		Pb	Cd	Hg	Cr (VI)	PBBs & PBDEs		
53	Black plastic	BL	BL	BL	BL	BL	PASS	/
54	Black plastic	BL	BL	BL	BL	BL	PASS	/
55	Silvery metal	BL	BL	BL	BL	NA	PASS	/
56	Black plastic	BL	BL	BL	BL	BL	PASS	/
57	Silvery metal	BL	BL	BL	BL	NA	PASS	/
58	White plastic	BL	BL	BL	BL	BL	PASS	/
59	Silvery metal	BL	BL	BL	Negative	NA	PASS	/
60	Dark grey solid	BL	BL	BL	BL	BL	PASS	/
61	Bronze metal	BL	BL	BL	BL	NA	PASS	/
62	Black solid	BL	BL	BL	BL	BL	PASS	/
63	Black solid	BL	BL	BL	BL	BL	PASS	/
64	Silvery metal	BL	BL	BL	BL	NA	PASS	/
65	Green PCB with white printing	BL	BL	BL	BL	BL	PASS	/
66	Silvery metal	BL	BL	BL	BL	NA	PASS	/
67	Purple plastic	BL	BL	BL	BL	BL	PASS	/
68	Transparent plastic	BL	BL	BL	BL	BL	PASS	/
69	Green PCB	BL	BL	BL	BL	BL	PASS	/
70	Black plastic	BL	BL	BL	BL	BL	PASS	/



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No.	Specimen Description	Test Results (mg/kg) ⁽¹⁾ ⁽²⁾					Conclusion	Comments
		Pb	Cd	Hg	Cr (VI)	PBBs & PBDEs		
71	Silvery metal	BL	BL	BL	Negative	NA	PASS	/
72	Silvery metal	BL	BL	BL	Negative	NA	PASS	/
73	Silvery plastic	BL	BL	BL	BL	BL	PASS	/
74	Golden metal	BL	BL	BL	BL	NA	PASS	/
75	Silvery metal	BL	BL	BL	BL	NA	PASS	/
76	White plastic	BL	BL	BL	BL	BL	PASS	/
77	Black foam	BL	BL	BL	BL	BL	PASS	/
78	Black metal	BL	BL	BL	BL	NA	PASS	/
79	Black plastic	BL	BL	BL	BL	BL	PASS	/
80	Pink plastic	BL	BL	BL	BL	BL	PASS	/
81	Silvery metal	BL	BL	BL	BL	NA	PASS	/
82	Pink plastic	BL	BL	BL	BL	BL	PASS	/
83	Silvery metal	BL	BL	BL	BL	NA	PASS	/
84	Pink coating	BL	BL	BL	BL	BL	PASS	/
85	Pink plastic with silvery printing	BL	BL	BL	BL	BL	PASS	/
86	Grey foam with glue	BL	BL	BL	BL	BL	PASS	/
87	Pink plastic	BL	BL	BL	BL	BL	PASS	/
88	Grey soft plastic	BL	BL	BL	BL	BL	PASS	/



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No.	Specimen Description	Test Results (mg/kg) ⁽¹⁾ ⁽²⁾					Conclusion	Comments
		Pb	Cd	Hg	Cr (VI)	PBBs & PBDEs		
89	Pink plastic	BL	BL	BL	BL	BL	PASS	/
90	White plastic	BL	BL	BL	BL	BL	PASS	/
91	White plastic	BL	BL	BL	BL	BL	PASS	/
92	Silvery metal	BL	BL	BL	Negative	NA	PASS	/
93	White coating	BL	BL	BL	BL	BL	PASS	/
94	White plastic with black printing	BL	BL	BL	BL	BL	PASS	/
95	White soft plastic	BL	BL	BL	BL	BL	PASS	/
96	White plastic	BL	BL	BL	BL	BL	PASS	/
97	White plastic	BL	BL	BL	BL	BL	PASS	/
98	White plastic	BL	BL	BL	BL	BL	PASS	/
99	Silvery metal	BL	BL	BL	Negative	NA	PASS	/



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Remark:

(1) ① The test results shown as “BL” are obtained by EDXRF for primary screening (for Cr (VI), the EDXRF screening result is expressed as Cr, and for PBBs and PBDEs, the EDXRF screening results are expressed as Br), and the test results shown as exact data are obtained by further wet chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr (VI)) and GC-MS (for PBBs and PBDEs).

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

Unit: mg/kg

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

③ OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.

Units and limits:

Restricted Substances	Pb	Cd	Hg	Cr (VI)	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than RL).

② Unit and RL (Reporting limit) in wet chemical test.

Restricted Substances	Pb	Cd	Hg	Cr (VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	5	5

③ According to IEC 62321-7-1:2015, result on Cr (VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr (VI) coating, Positive = Presence of Cr (VI) coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr (VI) represent status of the sample at the time of testing.



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2 Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8:2017, analyzed by Gas Chromatography-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	30	
No.	Test Results (mg/kg)				
2+84+93	N.D.	N.D.	N.D.	N.D.	PASS
3+4+6	N.D.	N.D.	N.D.	N.D.	PASS
8+15+30	N.D.	N.D.	N.D.	N.D.	PASS
11+29+38	N.D.	N.D.	N.D.	N.D.	PASS
12+13+17	N.D.	N.D.	N.D.	N.D.	PASS
21+22+23	N.D.	N.D.	N.D.	N.D.	PASS
24+48+70	N.D.	N.D.	N.D.	N.D.	PASS
28+31+86	N.D.	N.D.	N.D.	N.D.	PASS
36+37+65	N.D.	N.D.	N.D.	N.D.	PASS
39+53+54	N.D.	N.D.	N.D.	N.D.	PASS
41+43+87	N.D.	N.D.	N.D.	N.D.	PASS
44+79+80	N.D.	N.D.	N.D.	N.D.	PASS
49+67+73	N.D.	N.D.	N.D.	N.D.	PASS
56+58+68	N.D.	N.D.	N.D.	N.D.	PASS
69	N.D.	N.D.	N.D.	N.D.	PASS
76	N.D.	N.D.	N.D.	N.D.	PASS
77	N.D.	N.D.	N.D.	N.D.	PASS
82+85+90	N.D.	N.D.	N.D.	N.D.	PASS
88+89+95	N.D.	N.D.	N.D.	N.D.	PASS
91+94+98	N.D.	N.D.	N.D.	N.D.	PASS
96+97	N.D.	N.D.	N.D.	N.D.	PASS

Remark:

1. mg/kg = milligram per kilogram (ppm).
2. RL = Reporting Limit.
3. N.D. = Not Detected (Less than RL).

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Sample Photos





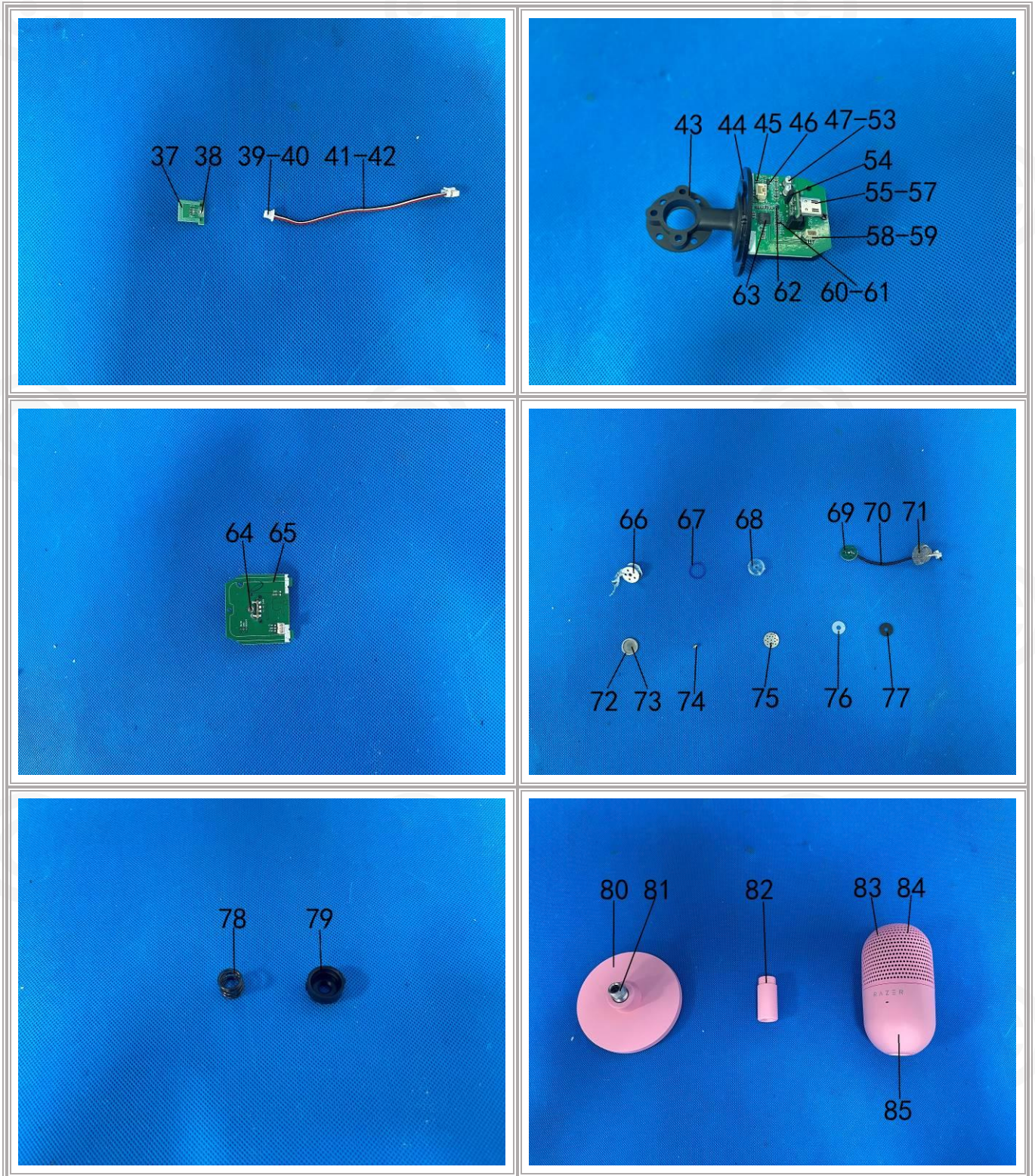
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Tested Parts Photos





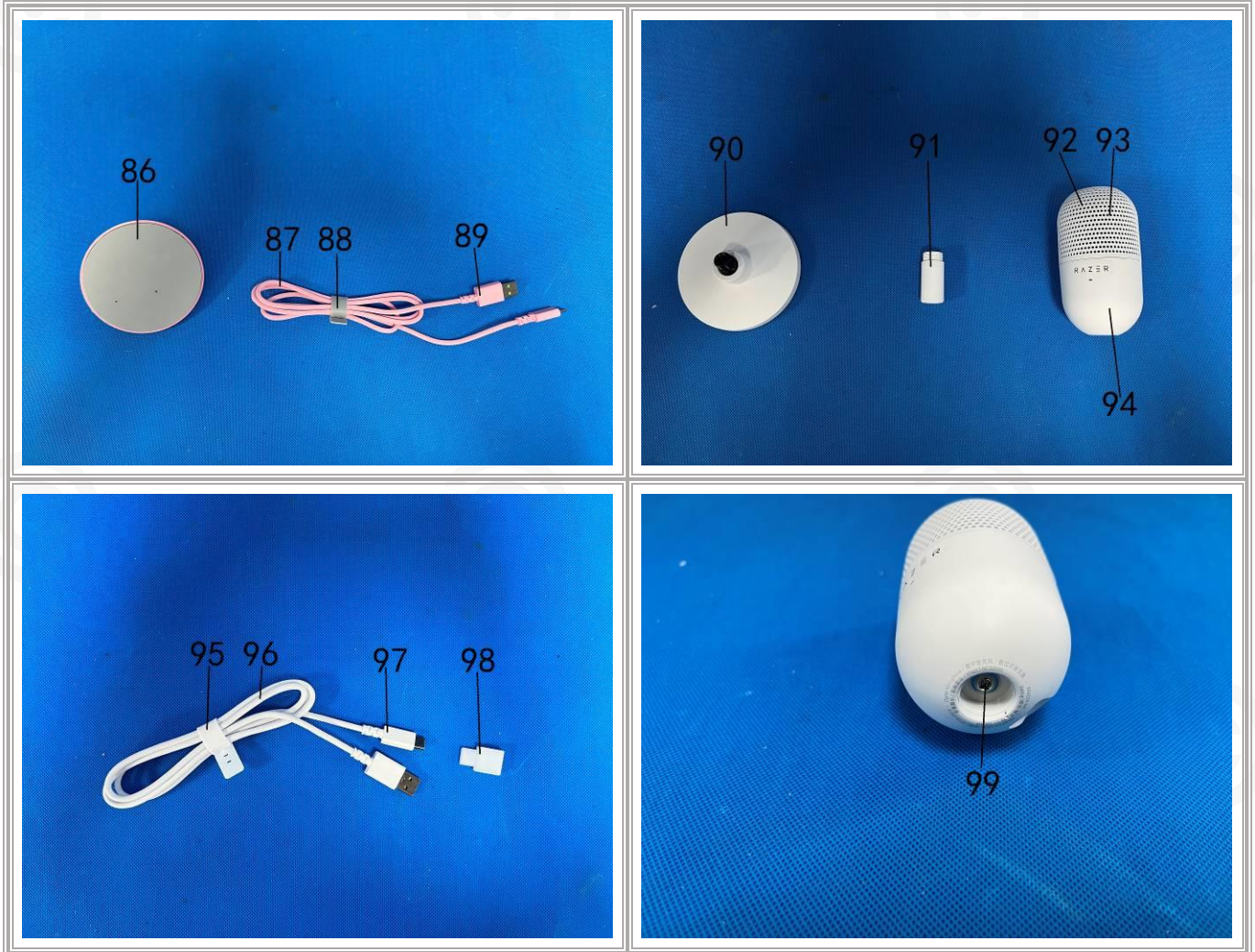
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Tested Parts Photos





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Appendix

EXEMPTION LIST (ANNEX III TO RoHS DIRECTIVE)

- 1 Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
 - 1(a) For general lighting purposes < 30W: 2.5mg (Expires on 24 February 2023)
 - 1(b) For general lighting purposes ≥ 30W and <50W: 3.5mg (Expires on 24 February 2023)
 - 1(c) For general lighting purposes ≥ 50W and <150W: 5mg (Expires on 24 February 2023)
 - 1(d) For general lighting purposes ≥ 150W: 15mg (Expires on 24 February 2023)
 - 1(e) For general lighting purposes with circular or square structural shape and tube diameter ≤17mm: 5mg (Expires on 24 February 2023)
 - 1(f)-I For lamps designed to emit mainly light in the ultraviolet spectrum: 5 mg (Expires on 24 February 2027)
 - 1(f)-II For special purposes: 5 mg (Expires on 24 February 2025)
 - 1(g) For general lighting purposes < 30 W with a lifetime equal or above 20000 h: 3,5 mg (Expires on 24 August 2023)
- 2(a) Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):
 - 2(a)(1) Tri-band phosphor with normal lifetime and a tube diameter < 9mm (e.g. T2): 4mg (Expires on 24 February 2023)
 - 2(a)(2) Tri-band phosphor with normal lifetime and a tube diameter ≥ 9mm and ≤ 17mm (e.g. T5): 3mg (Expires on 24 August 2023)
 - 2(a)(3) Tri-band phosphor with normal lifetime and a tube diameter > 17mm and ≤ 28mm (e.g. T8): 3.5mg (Expires on 24 August 2023)
 - 2(a)(4) Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 3.5mg (Expires on 24 February 2023)
 - 2(a)(5) Tri-band phosphor with long lifetime (≥ 25000h): 5mg (Expires on 24 February 2023)
- 2(b) Mercury in other fluorescent lamps not exceeding (per lamp):
 - 2(b)(3) Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9): 15mg (Expires on 24 February 2023; 10 mg may be used per lamp from 25 February 2023 until 24 February 2025)
 - 2(b)(4)-I Lamps for other general lighting and special purposes (e.g. induction lamps): 15mg (Expires on 24 February 2025)
 - 2(b)(4)-II Lamps emitting mainly light in the ultraviolet spectrum: 15 mg (Expires on 24 February 2027)
 - 2(b)(4)-III Emergency lamps: 15 mg (Expires on 24 February 2027)
- 3 Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp):
 - 3(a) Short length (≤ 500mm): 3.5mg (Expires on 24 February 2025)
 - 3(b) Medium length (> 500mm and ≤ 1500mm): 5mg (Expires on 24 February 2025)
 - 3(c) Long length (> 1500mm): 13mg (Expires on 24 February 2025)
 - 4(a) Mercury in other low pressure discharge lamps (per lamp): 15mg (Expires on 24 February 2023)
 - 4(a)-I Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lamp-spectral output to be in the ultraviolet spectrum: up to 15 mg mercury may be used per lamp (Expires on 24 February 2027)
 - 4(b) Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 80: P ≤ 105W: 16mg (Expires on 24 February 2027)
 - 4(b)-I Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: P ≤ 155W: 30mg (Expires on 24 February 2023)
 - 4(b)-II Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: 155W < P ≤ 405W: 40mg (Expires on 24 February 2023)
 - 4(b)-III Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: P > 405W: 40mg (Expires on 24 February 2023)
 - 4(c) Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
 - 4(c)-I P ≤ 155W: 20mg (Expires on 24 February 2027)
 - 4(c)-II 155W < P ≤ 405W: 25mg (Expires on 24 February 2027)
 - 4(c)-III P > 405W: 25mg (Expires on 24 February 2027)
 - 4(e) Mercury in metal halide lamps (MH) (Expires on 24 February 2027)
 - 4(f)-I Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex (Expires on 24 February 2025)
 - 4(f)-II Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required (Expires on 24 February 2027)
 - 4(f)-III Mercury in high pressure sodium vapour lamps used for horticulture lighting (Expires on 24 February 2027)
 - 4(f)-IV Mercury in lamps emitting light in the ultraviolet spectrum (Expires on 24 February 2027)
- 5(b) Lead in glass of fluorescent tubes not exceeding 0.2% by weight
- 6(a)-I Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight (Renew was requested)
- 6(b)-I Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling (Renew was requested)
- 6(b)-II Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight (Renew was requested)
- 6(c) Copper alloy containing up to 4% lead by weight. (Renew was requested for categories 1-7 and 10 and for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 7(a) Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead) (Applies to categories 1-7 and 10 (except applications covered under point 24) and renew was requested. For categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments, renew was requested. For category 8 *in vitro* diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.)
- 7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound (Applies to categories 1-7 and 10 (except applications covered under point 34) and

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- renew was requested. For categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments, renew was requested. For category 8 *in vitro* diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.)
- 7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher (Does not apply to applications covered by point 7(c)-I and 7(c)-IV of this Annex. Renew was requested for categories 1-7 and 10 and for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 7(c)-IV Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 8(b) Cadmium and its compounds in electrical contacts (Applies to categories 8, 9 and 11 and renew was requested for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; renew was requested for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 8(b)-I Cadmium and its compounds in electrical contacts used in:
- circuit breakers,
 - thermal sensing controls,
 - thermal motor protectors (excluding hermetic thermal motor protectors),
 - AC switches rated at:
 - 6 A and more at 250 V AC and more, or
 - 12 A and more at 125 V AC and more,
 - DC switches rated at 20 A and more at 18 V DC and more, and
 - switches for use at voltage supply frequency ≥ 200 Hz
- (Applies to categories 1 to 7 and 10 and renew was requested)
- 9 Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 9(a)-II Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators:
- designed to operate fully or partly with electrical heater, having an average utilised power input ≥ 75 W at constant running conditions,
 - designed to fully operate with non-electrical heater.
- (Applies to categories 1-7 and 10 and renew was requested)
- 9(b) Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications (Applies to categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 13(a) Lead in white glasses used for optical applications (Applies to all categories; renew was requested for categories 1 to 7 and 10; expires on: 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; 21 July 2021 for all other categories and subcategories)
- 13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards (Applies to categories 8, 9 and 11 and expires on: renew was requested for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; renew was requested for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 13(b)-I Lead in ion coloured optical filter glass types (Applies to categories 1 to 7 and 10; renew was requested for categories 1 to 7 and 10)
- 13(b)-II Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex (Applies to categories 1 to 7 and 10; renew was requested for categories 1 to 7 and 10)
- 13(b)-III Cadmium and lead in glazes used for reflectance standards (Applies to categories 1 to 7 and 10; renew was requested for categories 1 to 7 and 10)
- 15 Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages (Applies to categories 8, 9 and 11 and expires on: renew was requested for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; renew was requested for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 15(a) Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies:
- a semiconductor technology node of 90 nm or larger;
 - a single die of 300 mm² or larger in any semiconductor technology node;
 - stacked die packages with die of 300 mm² or larger, or silicon interposers of 300 mm² or larger.
- (Applies to categories 1 to 7 and 10 and renew was requested.)
- 18(b) Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi₂O₅:Pb) (Expires on: renew was requested for categories 1-7 and 10; renew was requested for categories 8 and 9 other than *in vitro* diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 *in vitro* diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 18(b)-I Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi₂O₅:Pb) when used in medical phototherapy equipment (Applies to categories 5 and 8, excluding applications covered by entry 34 of Annex IV, and renew was requested)
- 21 Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass (Applies to

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- categories 8, 9 and 11 and expires on: 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 24 Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors (Expires on: renew was requested for categories 1-7 and 10; renew was requested for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; renew was requested for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 25 Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring (Applies to categories 8, 9 and 11 and expires on: 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11)
- 29 Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC (Expires on: renew was requested for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 32 Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes (Expires on: renew was requested for categories 1-7 and 10; renew was requested for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 34 Lead in cermet-based trimmer potentiometer elements (Applies to all categories; expires on: renew was requested for categories 1-7 and 10; renew was requested for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; renew was requested for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 37 Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body (Expires on: 21 July 2021 for categories 1-7 and 10; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.)
- 39(a) Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm² of display screen area) (For all categories renew was requested)
- 41 Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council) (Applies to all categories and expires on: 31 March 2022 for categories 1 to 7, 10 and 11; 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments.)
- 42 Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment:
- with engine total displacement ≥ 15 litres; or
- with engine total displacement < 15 litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture applications.
(Applies to category 11, excluding applications covered by entry 6(c) of this Annex, and expires on 21 July 2024)
- 43 Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed:
(a) 30 % by weight of the rubber for
(i) gasket coatings;
(ii) solid-rubber gaskets; or
(iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine.
(b) 10 % by weight of the rubber for rubber-containing components not referred to in point (a).
For the purposes of this entry, "prolonged contact with human skin" means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.
(Applies to category 11 and expires on 21 July 2024.)
- 44 Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council⁽¹⁾, installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users (Applies to category 11 and expires on 21 July 2024)
- 45 Lead diazide, lead styphnate, lead dipicramate, orange lead (lead tetroxide), lead dioxide in electric and electronic initiators of explosives for civil (professional) use and barium chromate in long time pyrotechnic delay charges of electric initiators of explosives for civil (professional) use (Effective from 1 November 2021. Applies to category 11 and expires on 20 April 2026)

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