

Test Report

Report No. : TCT250612C002001

Date : Jun. 18, 2025

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Applicant: SHENZHEN HELLVAPE TECHNOLOGY CO.,LTD

Address: 404,No.12 Tongfuyu Industrial Zone, Heping Community, Bao ' an District,
Shenzhen, Guangdong, China

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: Hellbeast RTA

Model No.: Hellbeast RTA

Trade Mark: Hellvape

Sample Received Date: 2025.06.12

Testing Period: 2025.06.12—2025.06.18

Test Method:

1. Sample Screening test with reference to IEC 62321-3-1:2013
2. Chemical Test Method
 - a. Determination of Lead, Cadmium by ICP-OES with reference to IEC 62321-5:2013
 - b. Determination of Mercury by ICP-OES with reference to IEC 62321-4:2013+AMD1:2017
 - c. Determination of Hexavalent Chromium by Colorimetric method using UV-Vis with reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017
 - d. Determination of PBBs and PBDEs by GC-MS with reference to IEC 62321-6:2015
 - e. Determination of DBP, BBP, DEHP and DIBP by GC-MS with reference to IEC 62321-8:2017

Test Result(s): Please refer to the following page(s).

Test Requested	Conclusion
As specified by client, Disassembly the sample and determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Bis-(2-ethylhexyl) Phthalate (DEHP), Benzylbutyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP) content of the parts in accordance with RoHS directive 2011/65/EU and the amendment directive (EU) 2015/863.	Pass

Checked by

Evan Fang

Evan Fang

Approved by

Ryan Zhang

Ryan Zhang

Technical Manager



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Test Result(s)

Part No.	Part Description	Test Item(s)	Result of EDXRF Screening test (1)	Result of Chemical Test (2) (mg/kg)	RoHS Conclusion
1	Transparent plastic	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass
2	Silvery color metal	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA
3	Transparent glass	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass

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Part No.	Part Description	Test Item(s)	Result of EDXRF Screening test (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
4	Silvery color metal	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA
5	White silicone	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass
6	Black silicone	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass

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Part No.	Part Description	Test Item(s)	Result of EDXRF Screening test (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
7	Silvery color metal	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA
8	Black silicone	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass
9	Silvery color metal	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA

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Part No.	Part Description	Test Item(s)	Result of EDXRF Screening test (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
10	Black silicone	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass
11	Black silicone	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass
12	Silvery color metal	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA

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Part No.	Part Description	Test Item(s)	Result of EDXRF Screening test (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
13	Silvery color metal screw	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA
14	LT.brown plastic	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass
15	Silvery color metal	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA

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Part No.	Part Description	Test Item(s)	Result of EDXRF Screening test (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
16	Silvery color metal	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA
17	Silvery color metal screw	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA
18	LT.brown plastic	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass

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Part No.	Part Description	Test Item(s)	Result of EDXRF Screening test (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
19	Silvery color metal	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	IN	N.D.	Pass
		PBBs	---	---	NA
		PBDEs	---	---	NA
		DBP	---	---	NA
		BBP	---	---	NA
		DEHP	---	---	NA
		DIBP	---	---	NA
20	Black silicone	Pb	BL	---	Pass
		Cd	BL	---	Pass
		Hg	BL	---	Pass
		Cr(VI)	BL	---	Pass
		PBBs	BL	---	Pass
		PBDEs	BL	---	Pass
		DBP	---	N.D.	Pass
		BBP	---	N.D.	Pass
		DEHP	---	N.D.	Pass
		DIBP	---	N.D.	Pass

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Remark:

(1) EDXRF Screening test

(a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (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	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,

--- = Not Regulated, NA = Not Applicable.

(d) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Chemical test

(a) 1mg/kg = 1ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.

(b) Unit and Method Detection Limit (MDL) in chemical test

Test Items	Pb	Cd	Hg	Cr(VI)		PBBs	PBDEs	DBP	BBP	DEHP	DIBP
MDL (mg/kg)	10	10	10	10	0.1 $\mu\text{g}/\text{cm}^2$	100	100	100	100	100	100
Limit (mg/kg)	1000	100	1000	1000	-	1000	1000	1000	1000	1000	1000

The limit is quoted from RoHS directive 2011/65/EU and the amendment directive (EU) 2015/863.

(c) According to IEC 62321-7-1:2015, For metal samples,

a. When the Cr (VI) concentration is > the 0,13 $\mu\text{g}/\text{cm}^2$, the sample is positive for Cr(VI) and considered to contain Cr(VI).

b. When the Cr (VI) concentration is N.D.(< the 0,10 $\mu\text{g}/\text{cm}^2$), the sample is negative for Cr(VI) and considered a non-Cr(VI) based coating.

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c. When the Cr (VI) concentration is $\geq$ the 0,10 $\mu\text{g}/\text{cm}^2$ and $\leq$ the 0,13 $\mu\text{g}/\text{cm}^2$, the result is considered to be inconclusive - Unavoidable coating variations may influence the determination.

Because the storage condition and production date of the sample are not known, the test results of the sample of hexavalent chromium can only represent the state of hexavalent chromium in the samples tested.

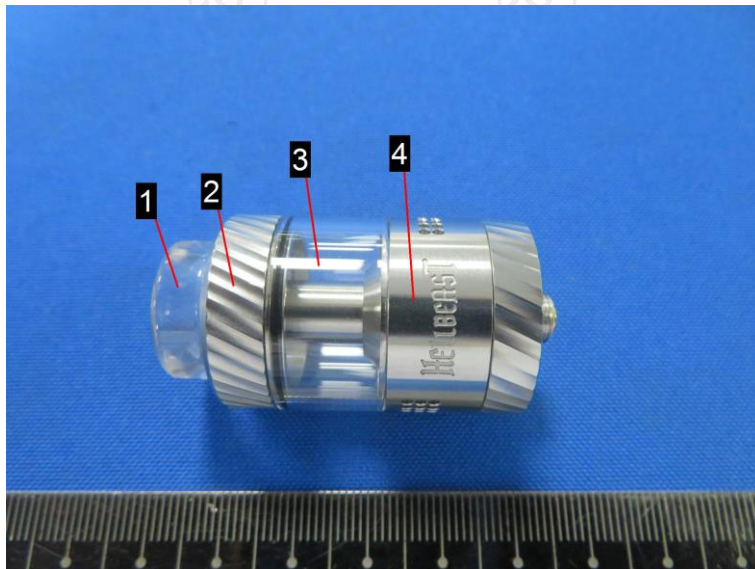
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Photo(s) of the sample(s)

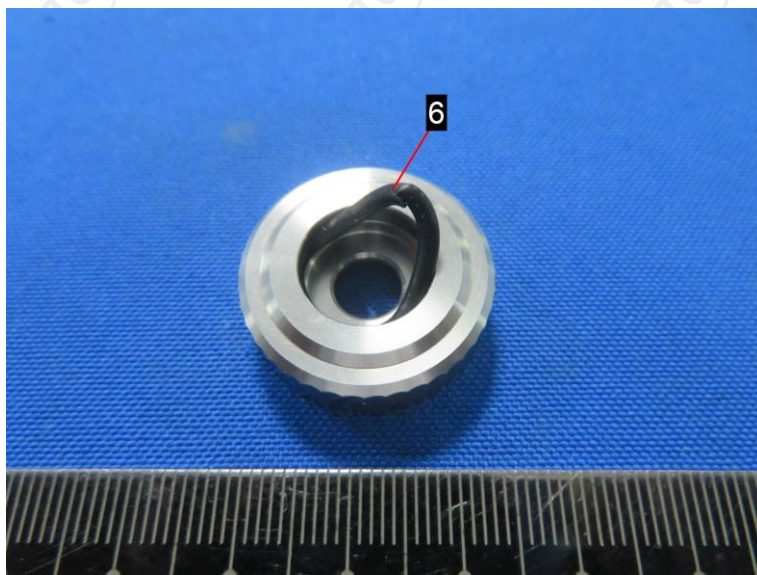
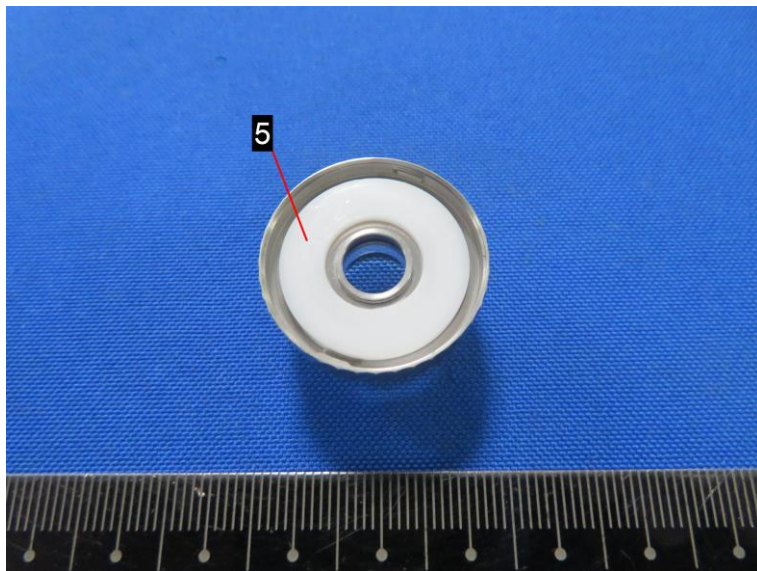


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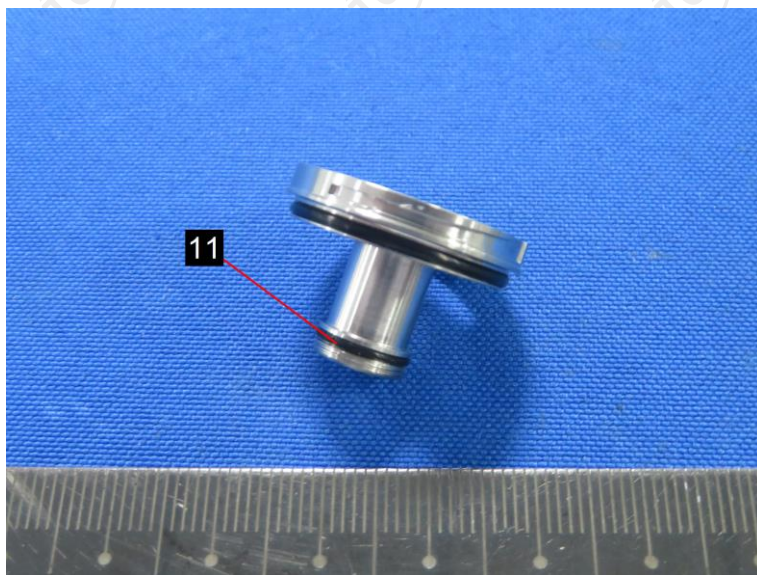
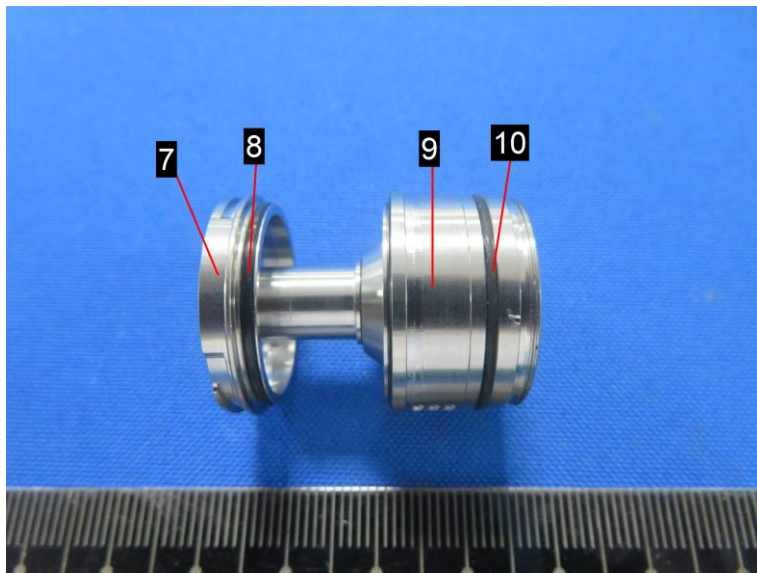


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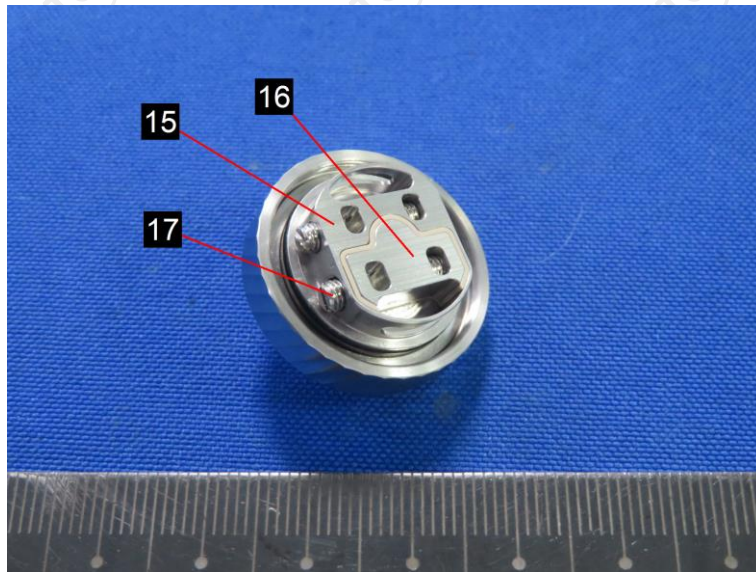
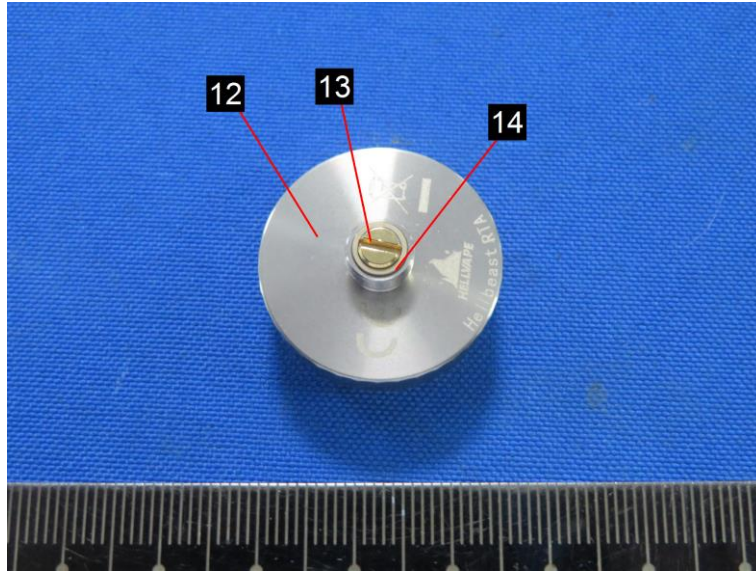


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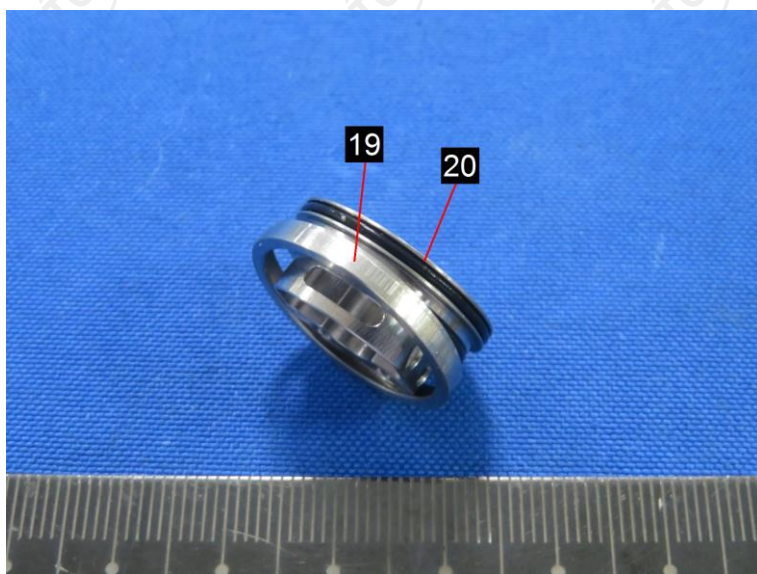
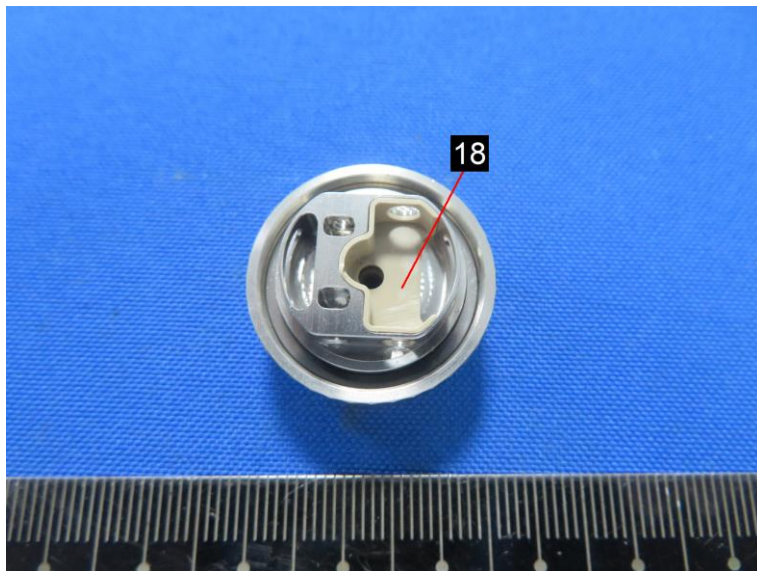


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***** End of Report *****

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