



TEST REPORT

TEST REPORT NO : 1001591726

Jun 29, 2022

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Applicant : POLYFLAME EUROPE S.A.S
Address : 23 ALLEE DU 1 er MAI,77183 CROISSY BEAUBOURG,FRANCE
Contact Person : LIJIA LI
Test Date : Jun 13, 2022 – Jun 28, 2022
Received Date: Jun 13, 2022
Contact Info: lijia.li@polyflame.com.cn

Sample Description: TOOVAP disposal E-CIG

Buyer: PF FRANCE
PO List: 181526
Item List: /
model number: Mini-Soul-Smile-II
Maker Number: 300201
No. Of Sample Submitted : 6

Test Item	Conclusion
EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863	PASS#
EMC Test	PASS#
Remark: 1. The results relate only to the samples tested. 2. The tested Samples/Components/Test Item were selected by client. 3. #These tests were subcontracted.	

***** End of Page *****

For and on behalf of
UL VS Shanghai Limited

Lester. Xie- Operation Manager

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Sample Information :

Sample	Product	Applicant's equivalent code / Color
001	black coating (on shell)	
002	white soft plastic (cover) (wire skin)	
003	ivory soft plastic (inside) (wire skin)	
004	red soft plastic (inside) (wire skin)	
005	TEKMEE SLIM ALU 5000MAH POWERBANK BLACK	

***** End of Page *****

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1. EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863

Test Results:

1. Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs Test Results:

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
1	White foam with liquid	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
2	Black foam	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
3	Transparent soft plastic with multicolor printing	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
4	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
5	White soft	Pb	Pb	BL	NA	Pass	No comment

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
	plastic	Cd	Cd	BL	NA	Pass	
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
6	Black hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
7	White felt	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
8	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
9	Black hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			

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		PBDEs					
10	White fiber with liquid	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
11	Solder-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
12	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
13	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
14	Red soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			

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		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
15	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
16	White felt	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
17	Black felt with glue	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
18	Red soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
19	Blue soft	Pb	Pb	BL	NA	Pass	No comment

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	plastic	Cd	Cd	BL	NA	Pass	
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
20	Black soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
21	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
22	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
23	Green PCB	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			

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		PBDEs					
24	Solder-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
25	SMD LED	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
26	Grey plastic film	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
27	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
28	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			

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		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
29	Pink soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
30	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
31	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
32	SMD IC	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
33	Solder-silver	Pb	Pb	BL	NA	Pass	No comment

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
	metal	Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
34	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
35	Transparent soft plastic with multicolor printing	Pb	Pb	BL	NA	Pass	See remark (3)
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
36	Transparent soft plastic with multicolor printing	Pb	Pb	BL	NA	Pass	See remark (3)
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
37	Transparent soft plastic with multicolor printing	Pb	Pb	BL	NA	Pass	See remark (3)
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
		PBDEs					
38	Transparent soft plastic with multicolor printing	Pb	Pb	BL	NA	Pass	See remark (3)
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr ⁶⁺	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

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Test Results:

2. Phthalates (DBP, BBP, DEHP, DIBP) Test Results:

Test Item	Test Result (mg/kg)				MDL (mg/kg)	Requirement Limit (mg/kg)
	1/2/3	5/6/7	8/9/10	14/15/16		
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass	Pass	---	---

Test Item	Test Result (mg/kg)				MDL (mg/kg)	Requirement Limit (mg/kg)
	17/18/19	20/21/23	25/26/28	29/32/35		
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass	Pass	---	---

Test Item	Test Result (mg/kg)	MDL (mg/kg)	Requirement Limit (mg/kg)
	36/37/38		
Dibutyl phthalate(DBP)	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	30	1000
Conclusion	Pass	---	---

Note: mg/kg = parts per million = ppm ND = Not Detected (less than MDL) MDL = Method Detection Limit

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Test Materials List:

Item No.	Description
1	White foam with liquid
2	Black foam
3	Transparent soft plastic with multicolor printing
5	White soft plastic
6	Black hard plastic
7	White felt
8	White soft plastic
9	Black hard plastic
10	White fiber with liquid
14	Red soft plastic
15	White soft plastic
16	White felt
17	Black felt with glue
18	Red soft plastic
19	Blue soft plastic
20	Black soft plastic
21	White soft plastic
23	Green PCB
25	SMD LED
26	Grey plastic film
28	White hard plastic
29	Pink soft plastic
32	SMD IC
35	Transparent soft plastic with multicolor printing
36	Transparent soft plastic with multicolor printing
37	Transparent soft plastic with multicolor printing
38	Transparent soft plastic with multicolor printing

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Note: As specified by the client, the samples were subjected to mixed testing.

Remark: (1) ① Results are obtained by XRF for primary screening, and further wet chemical testing by ICP-OES / AAS (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).

② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA= Not Applicable.

③ XRF screening test for RoHS elements – The test result may be different from the actual content in the non-uniformity composition sample.

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	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (less than MDL), MDL = Method Detection Limit.

② Unit, Method Detection Limit (MDL) and Requirement limit in wet chemical test.

Test items	Pb	Cd	Hg	Cr ⁶⁺ (Non-metal)	Cr ⁶⁺ (metal)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	8	---	5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

③ According to IEC 62321-7-1:2015, result on Cr⁶⁺ for metal sample shall be shown as Positive/Negative.

a) The Cr(VI) concentration is more than 0.13 µg/cm², the sample is positive for Cr(VI), the coating is considered to contain Cr(VI).

b) The Cr(VI) concentration is less than 0.10 µg/cm², the sample is negative for Cr(VI), the coating is considered a non-Cr(VI) based coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr⁶⁺ represent status of the sample at the time of testing.

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test. And "NA" means no need to perform wet chem test, when the XRF screening results are acceptable.

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(3) As declared by client, No.35 the tested materials are only contained in the sample item Red; No.36 the tested materials are only contained in the sample item Orange; No.37 the tested materials are only contained in the sample item Green; No.38 the tested materials are only contained in the sample item Pink.

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Sample Photo



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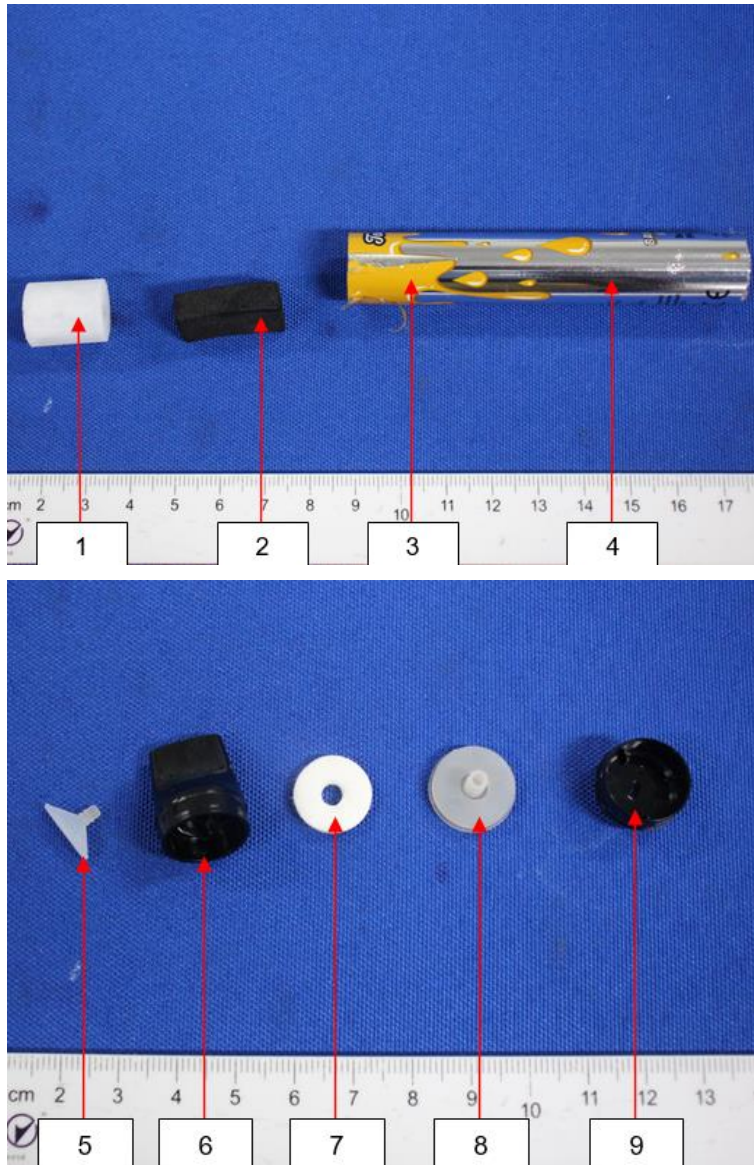
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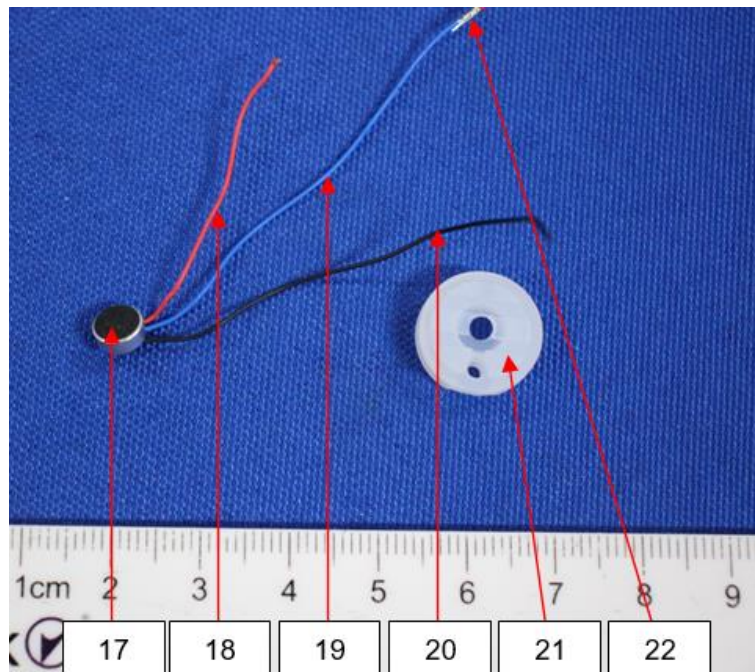
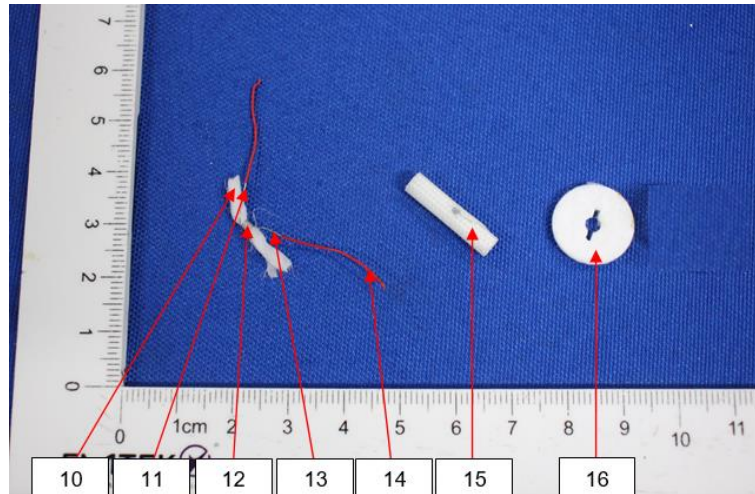
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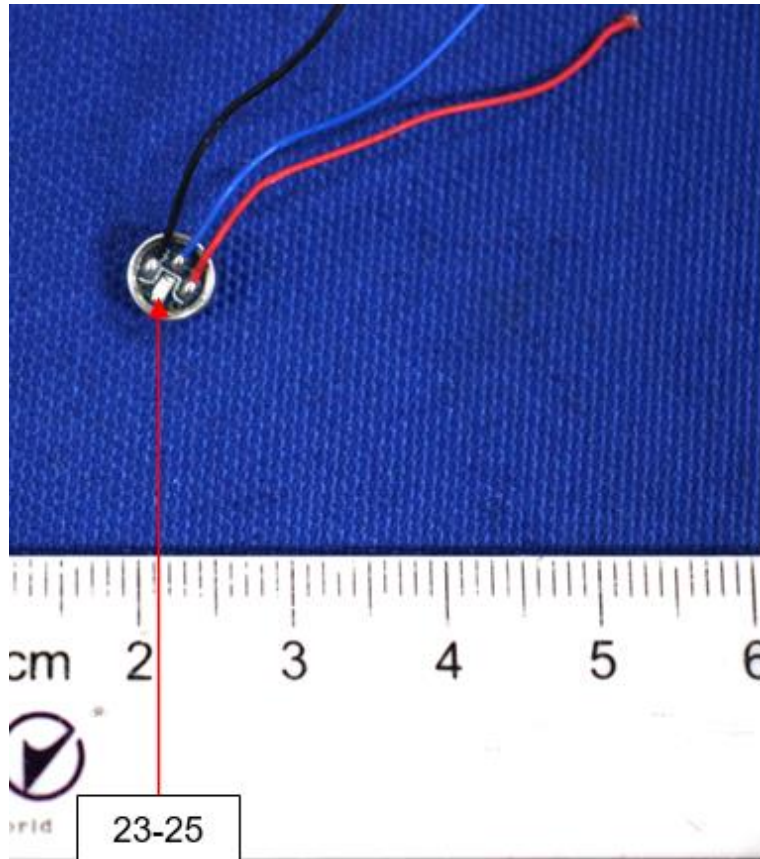
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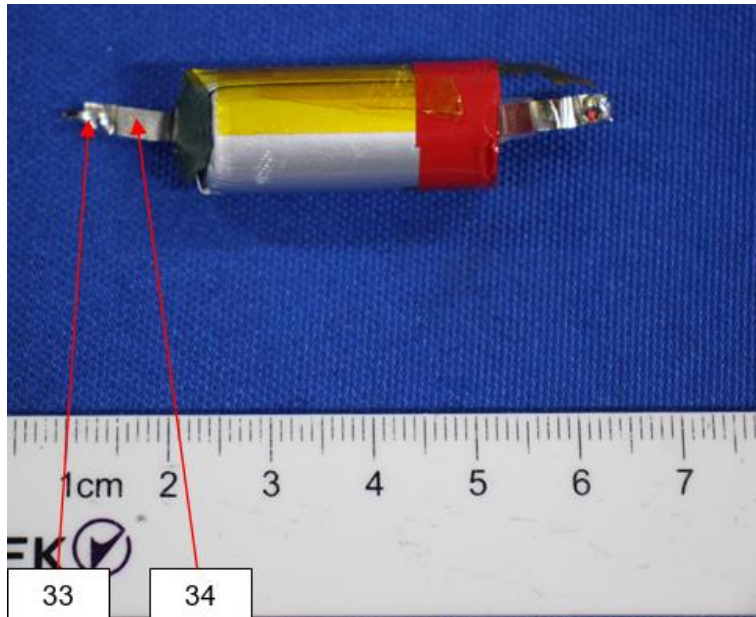


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2. EMC Test

Applicant : POLYFLAME EUROPE S.A.S
Manufacturer : POLYFLAME EUROPE S.A.S
Trade Mark : N/A
EUT : TOOVAP disposal E-CIG

Measurement Procedure Used:

EN IEC 55014-1:2021
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013/A2:2021
EN IEC 55014-2:2021
(IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2:2010, IEC 61000-4-4:2012,
IEC 61000-4-5:2014, IEC 61000-4-6:2013, IEC 61000-4-11:2020)

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1. SUMMARY OF TEST RESULT

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted Emissions at General Mains port	EN IEC 55014-1:2021	Table 5	N/A
Conducted Emissions at Mains Port for Motor Operated Tools	EN IEC 55014-1:2021	Table 6	N/A
Conducted Emissions at Mains Port for the AC Mains Port of Equipment With Active IPT Functions	EN IEC 55014-1:2021	Table 2	N/A
Conducted Emissions at Auxiliary Ports	EN IEC 55014-1:2021	Table 5	N/A
Click	EN IEC 55014-1:2021	Section 4.4.2	N/A
Disturbance Power	EN IEC 55014-1:2021	Table 7&8	N/A
Magnetic Field Strength at Equipment With Active IPT Functions	EN IEC 55014-1:2021	Table 4	N/A
Magnetic Field Induced Current at Equipment With Active IPT Functions	EN IEC 55014-1:2021	Table 3	N/A
Radiated Emission Up to 1 GHz	EN IEC 55014-1:2021	Table 9	Pass
Radiated Emission Above 1 GHz	EN IEC 55014-1:2021	Table 11	N/A
Harmonic Current Emission	EN IEC 61000-3-2:2019+A1:2021	Class A	N/A
Voltage Fluctuation And Flicker	EN 61000-3-3:2013/A2:2021	Section 5	N/A

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IMMUNITY (EN IEC 55014-2:2021, Category III)				
Description of Test Item		Basic Standard	Performance Criteria	Results
Electrostatic Discharge	Enclosure ports	IEC 61000-4-2:2008	B	Pass
Radio frequency electromagnetic fields	Enclosure ports	IEC 61000-4-3:2006+A1:2007+A2:2010	A	Pass
Electrical Fast Transient / Burst	Signal ports, control ports and wired network ports	IEC 61000-4-4:2012	B	N/A
	Input and output DC power ports			N/A
	Input and output AC power ports			N/A
Surge	Input AC power ports	IEC 61000-4-5:2014	B	N/A
	wired network ports			N/A
Injected Current Susceptibility	Signal ports, control ports and wired network ports	IEC 61000-4-6:2013	A	N/A
	Input and output DC power ports			N/A
	Input and output AC power ports			N/A
Voltage Dips	Input AC power ports	IEC 61000-4-11:2020	C	N/A

Note: N/A is an abbreviation for Not Applicable.

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2. GENERAL INFORMATION

Description of Device (EUT)

EUT : TOOVAP disposal E-CIG

Model Number : 70000167

Test Voltage : DC 3.7V

Highest Frequency : Below 15 MHz

Sample number : ENB2206150097E002-1-1

Applicant : POLYFLAME EUROPE S.A.S

Address : 23 Allee du 1er Mai 77183 Croissy Beaubourg France

Manufacturer : POLYFLAME EUROPE S.A.S

Address : 23 Allee du 1er Mai 77183 Croissy Beaubourg France

Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Enclosure	N/E	--	--	None
/	/	/	/	/	/

*Note: Use abbreviations:

AC= AC Power port

DC= DC Power port

N/E= Non-Electrical

A/D=Analogue/digital data port (signal/control port, antenna port, wired network port, broadcast receiver tuner port, optical fibre port)

Independent Operation Modes

A. ON

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Test Voltage and Frequency for EN IEC 55014-1& EN IEC 55014-2

During the tests, the EUT shall be operated at the rated voltage specified for the equipment.

For single-phase equipment with a rated voltage range in the range between:

- 100 V to 127 V, test at one nominal voltage within this range;
- 200 V to 240 V, test at one nominal voltage within this range;
- 100 V to 240 V, test at two voltages within this range, one test in the range 100 V to 127 V and another test in the range 200 V to 240 V.

The recommended test voltages are 120 V for the range 100 V to 127 V; and 230 V for the range 200 V to 240 V.

Note: The nominal voltages of mains supply networks are 100 V, 110 V, 115 V, 120 V, 127 V, 200 V, 208 V, 220V, 230 V and 240 V.

During the tests the EUT shall be operated at the rated frequency specified for the equipment.

If the equipment has more than one rated frequency (e.g. 50 Hz to 60 Hz), then the EUT shall be tested at one of these frequencies only.

If the equipment has a rated frequency range (e.g. 50 Hz to 60 Hz), then the EUT shall be tested at one frequency within this range

We prepared AC 230V/50Hz and (or) AC 120V/60Hz two voltages for AC Mains equipment test.

Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Radiated Emission	DC 3.7V	Mode A	Mode A
Electrostatic Discharge	DC 3.7V	Mode A	Mode A
R/S	DC 3.7V	Mode A	Mode A

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Description of Test Facility

Site Description

EMC Lab. A

: **Accredited by CNAS**

The Certificate Registration Number is L6666.

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1302

Test Firm Registration Number: 436491

Accredited by A2LA

The certificate is valid until May 31, 2023

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0114

Support Device

N/A

Test Software

Item	Software
Radiated Emission	: TS+(Ver. 4.0.0.0)

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Measurement Uncertainty

Test Item	Uncertainty
Radiated Emission Uncertainty (3m Chamber)	: 4.06 dB (Polarize: H) (30MHz-1000MHz)
	4.04 dB (Polarize: V) (30MHz-1000MHz)
	4.82 dB (Polarize: H) (1~18GHz)
	4.80 dB (Polarize: V) (1~18GHz)
Uncertainty for ESD Test	: 6.00% kV
Uncertainty for R/S Test	: 2.10dB(80MHz-200MHz)
	2.36dB(200MHz-1000MHz)
	2.57dB(1000MHz-6000MHz)

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3. MEASURING DEVICE AND TEST EQUIPMENT

For Radiated Emission Measurement

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-002	Spectrum Analyzer	Rohde & Schwarz	ESCI	101107	July 08, 2021	1 Year
ENE-002	EMI Test Receiver	Rohde & Schwarz	ESCI	101107	July 08, 2021	1 Year
ENE-009	Pre-Amplifier	CD	PAP-0203	22015	July 08, 2021	1 Year
ENE-010	Bilog Antenna	Schwarzbeck	VULB9163	9163-467	July 12, 2020	2 Year
ENE-025-1	Cable	Huber + Suhner	CBL3-NN-0.5m	101216-2140500-2	July 08, 2021	1 Year
ENE-025-2	Cable	Huber + Suhner	CBL3-NN-3.0m	101216-2143000-2	July 08, 2021	1 Year
ENE-025-3	Cable	Huber + Suhner	CBL3-NN-9.0m	101216-2149000	July 08, 2021	1 Year

For Electrostatic Discharge Immunity Test

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-139	ESD Tester	TESEQ	NSG 437	1732	Dec. 01, 2021	1 Year

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For Radio frequency electromagnetic fields Immunity Test

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-173	RF Signal generator/RF	Keysight	N5171B	MY61252820	April 28, 2022	1 Year
ENE-174	SW-RF	JS Denki	JSDSW-BS02	JSDSW2120 D01	April 28, 2022	1 Year
ENE-175	Power Amplifier	Vectawave	VBA 1000-600c	132035	April 28, 2022	1 Year
ENE-176	Power Amplifier	Vectawave	VBA 1060-200	132120	April 28, 2022	1 Year
ENE-177	Directional couplers	Bonn	BDC 0810-50/1500	2129259-01	April 28, 2022	1 Year
ENE-178	Directional couplers	Bonn	BDC 1060-40/500	2129304-03	April 28, 2022	1 Year
ENE-179	Multilayer periodic antenna	Schwarzbeck	STLP9129-7/16	03043	April 28, 2022	1 Year
ENE-180	RF cable	Times	LMR600-UF-4M	611747-0001	April 28, 2022	1 Year
ENE-180-1	RF cable	Times	LMR600-UF-1.5M	/	April 28, 2022	1 Year
ENE-181	RF cable	Times	LMR600-UF-4M	611748-0001	April 28, 2022	1 Year
ENE-181-1	RF cable	Times	LMR600-UF-1.5M	/	April 28, 2022	1 Year
ENE-182	power meter	LSPM	86	Lumiloop	April 28, 2022	1 Year

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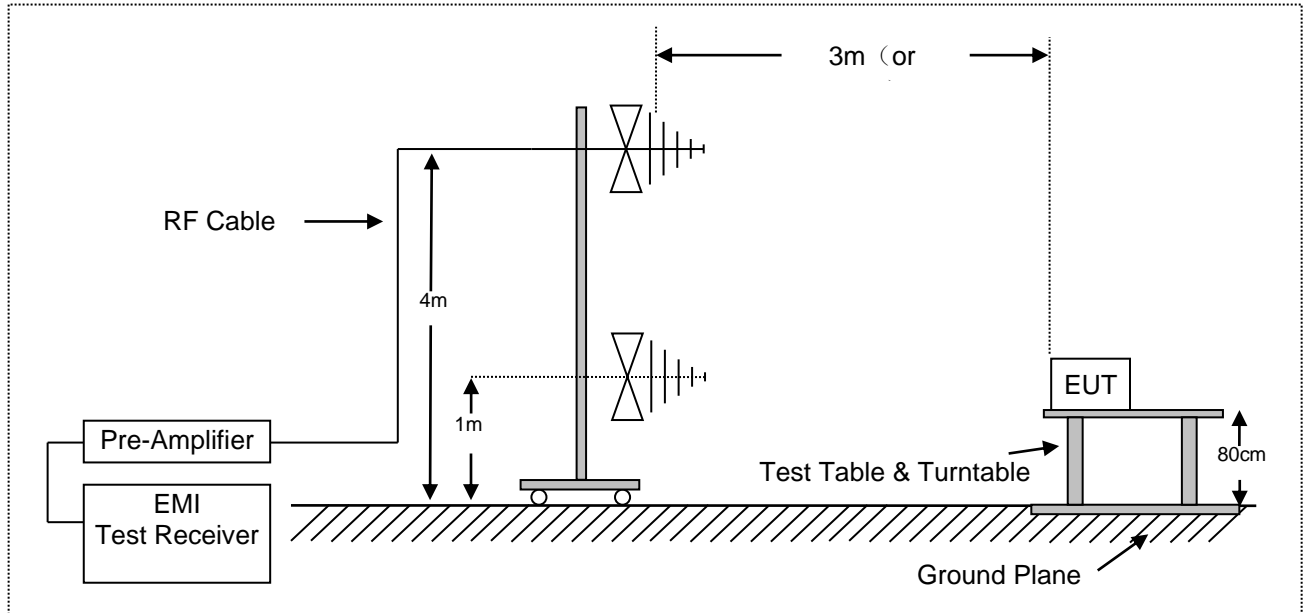
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4. RADIATED EMISSION MEASUREMENT (UP TO 1GHZ)

Block Diagram of Test Setup



Measuring Standard

EN IEC 55014-1:2021

Measurement Limits

Frequency range MHz	Measurement			Class B limits dB(μV/m)
	Facility	Distance (m)	Detector type / bandwidth	
30 to 230	OATS/SAC	10	Quasi Peak / 120 kHz	30
230 to 1 000				37
30 to 230	OATS/SAC	3		40
230 to 1 000				47

Note: (1) The lower limit is applies at the transition frequency.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

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Test Procedure

The EUT is placed on a turntable which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters or 10 meters away from the receiving antenna that is mounted on an antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver is set at 120 kHz. The frequency range from 30 MHz to 1000 MHz is investigated.

Test results were obtained from the following equation:
Measurement (dBμV) = Correct Factor (dB) + Reading (dBμV)
Over (dB) = Measurement (dBμV) - Limit (dBμV)

Measuring Results

Pass.

Please refer to the following pages.

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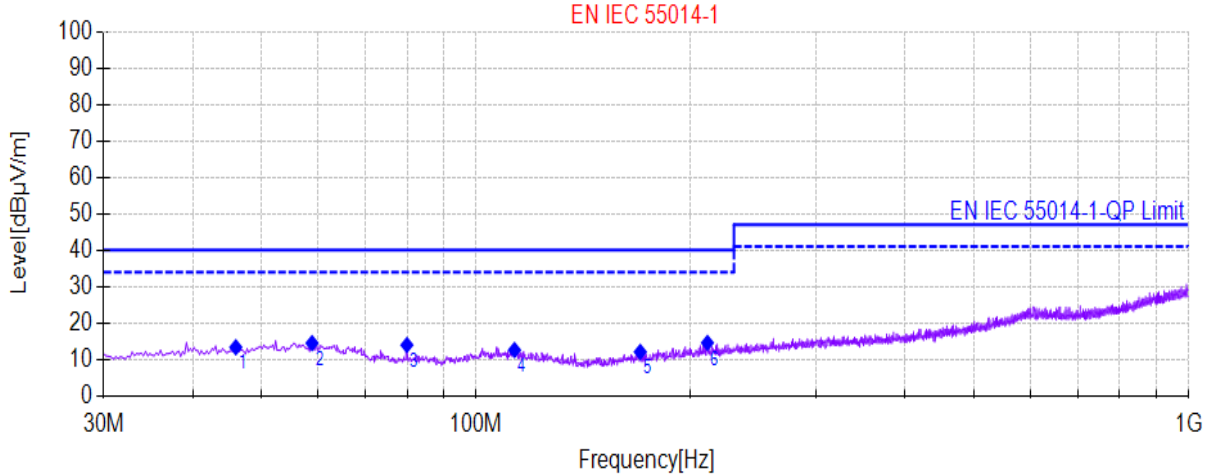
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Project Information			
Mode:	ON	Voltage:	DC 3.7V
Environment:	Temp: 25°C; Humi:60%	Engineer:	Conan Wen



Final Data List										
NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	46.005	36.57	-23.24	13.33	40.00	26.67	100	268	Vertical	Pass
2	58.858	36.68	-22.21	14.47	40.00	25.53	100	35	Vertical	Pass
3	79.955	39.12	-25.17	13.95	40.00	26.05	100	102	Vertical	Pass
4	113.178	36.17	-23.60	12.57	40.00	27.43	100	266	Vertical	Pass
5	169.923	36.72	-24.67	12.05	40.00	27.95	100	199	Vertical	Pass
6	211.148	37.42	-22.87	14.55	40.00	25.45	100	320	Vertical	Pass

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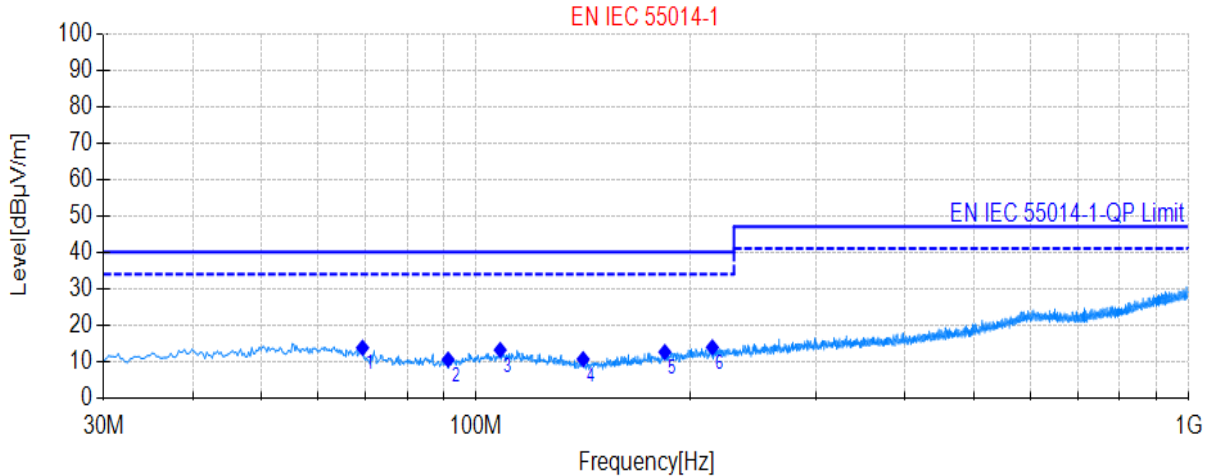
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Project Information			
Mode:	ON	Voltage:	DC 3.7V
Environment:	Temp: 25°C; Humi:60%	Engineer:	Conan Wen



Final Data List

NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	69.285	37.81	-24.07	13.74	40.00	26.26	100	4	Horizontal	Pass
2	91.353	35.81	-25.33	10.48	40.00	29.52	100	343	Horizontal	Pass
3	108.085	36.62	-23.48	13.14	40.00	26.86	100	172	Horizontal	Pass
4	141.308	36.60	-26.00	10.60	40.00	29.40	100	136	Horizontal	Pass
5	183.988	36.66	-24.10	12.56	40.00	27.44	100	12	Horizontal	Pass
6	214.543	36.64	-22.77	13.87	40.00	26.13	100	76	Horizontal	Pass

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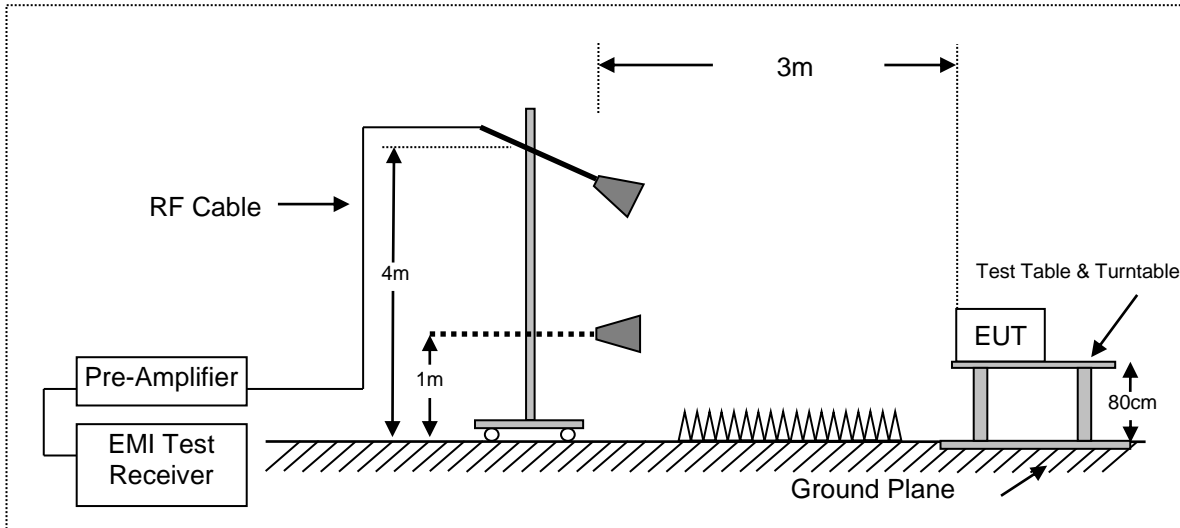
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5. RADIATED EMISSION MEASUREMENT (ABOVE 1GHZ)

Block Diagram of Test Setup



Measuring Standard

EN IEC 55014-1:2021

Measurement Limits

Test methods Site validation	Frequency range MHz	Limit a dB(μ V/m)	Detector / RBW	Measurement distance (m)
FSOATS ^b FAR	1 000 to 3 000	50	Average 1 MHz	3
	3 000 to 6 000	54		
	1 000 to 3 000	70	Peak 1 MHz	
	3 000 to 6 000	74		

a The limits are applied across the frequency range from 1 000 MHz to the required highest frequency of measurement derived from Table 10.

b A FSOATS may be a SAC/OATS with RF absorbers on the RGP.

When using a spectrum analyser the VBW shall be 1 MHz or higher. The recommended VBW is 3 MHz.

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Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz.

Test results were obtained from the following equation:

Measurement (dBμV) = Correct Factor (dB) + Reading (dBμV)
Over (dB) = Measurement (dBμV) - Limit (dBμV)

Measuring Results

N/A.

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6. IMMUNITY PERFORMANCE CRITERIA DESCRIPTION

A functional description and a definition of performance criteria, during or as a consequence of the EMC testing, shall be provided by the manufacturer and noted in the test report, based on the following criteria.

Performance criterion A: The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion B: The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion C: Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

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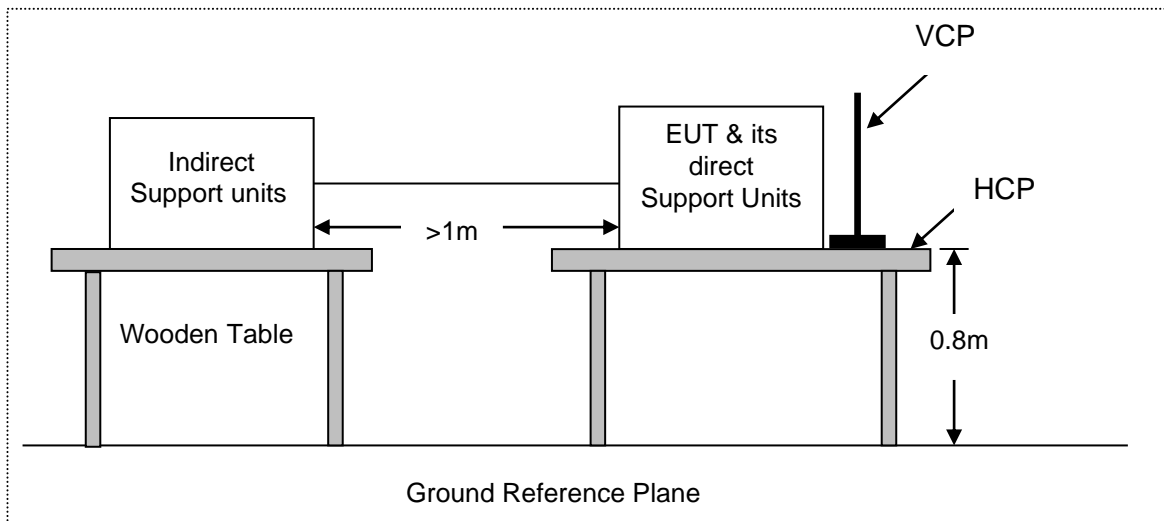
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7. ELECTROSTATIC DISCHARGE IMMUNITY TEST

Test Specification

Test standard : EN IEC 55014-2
Basic standard : IEC 61000-4-2
Performance criterion : B
 C (Applied to toys not using score or data entered by the user)
Test level : $\pm 8.0\text{kV}$ (Air discharge)
 $\pm 4.0\text{kV}$ (Contact discharge)

Block Diagram of Test Setup



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Test Procedure

- a. In the case of air discharge testing, the climatic conditions shall be within the following ranges:
 - ambient temperature: 15°C to 35°C;
 - relative humidity : 30% to 60%;
 - atmospheric pressure : 86 kPa (860 mbar) to 106 kPa (1060 mbar)
- b. Test programs and software shall be chosen so as to exercise all normal modes of operation of the EUT. The use of special exercising software is encouraged, but permitted only where it can be shown that the EUT is being comprehensively exercised.
- c. In the case of contact discharges, the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.
- d. In the case of painted surface covering a conducting substrate, the following procedure shall be adopted : - If the coating is not declared to be an insulating coating by the equipment manufacturer, then the pointed tip of the generator shall penetrate the coating so as to make contact with the conducting substrate. - Coating declared as insulating by the manufacturer shall only be submitted to the air discharge. - The contact discharge test shall not be applied to such surfaces.
- e. In the case of air discharges, the round discharge tip of the discharge electrode shall be approached as fast as possible (without causing mechanical damage) to touch the EUT. After each discharge, the ESD generator (discharge electrode) shall be removed from the EUT. The generator is then retriggered for a new single discharge. This procedure shall be repeated until the discharges are completed. In the case of an air discharge test, the discharge switch, which is used for contact discharge, shall be closed.
- f. The test voltage shall be increased from the minimum to the selected test severity level, in order to determine any threshold of failure. The final test level should not exceed the product specification value in order to avoid damage to the equipment.
- g. The test shall be performed with both air discharge and contact discharge. The test shall be performed with single discharges. On each pre-selected point at least 10 single discharges (in the most sensitive polarity) shall be applied. For the time interval between successive single discharges an initial value of 1 s is recommended. Longer intervals may be necessary to determine whether a system failure has occurred.
- h. Ensure that the applied charge on the EUT has been dis-charged before next ESD pulse.

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Test Results

Pass.

Temperature : 22 °C
Humidity : 50 %
Atmospheric Pressure : 101kpa
Test Date : 2022-06-17

Air Discharge:

Test Voltage	Location	Actual criterion	Required performance criterion		Result (Pass/Fail)
±2; 4; 8 kV	All slots of the EUT	A	<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	Pass
±2; 4; 8 kV	Non-Conducted Enclosure	A	<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	Pass

Contact Discharge

Test Voltage	Location	Actual criterion	Required performance criterion		Result (Pass/Fail)
±2; 4kV	/	/	<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	/
±2; 4kV	/	/	<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	/

Indirect Discharge

Test Voltage	Location	Actual criterion	Required performance criterion		Result (Pass/Fail)
±2; 4 kV	HCP	A	<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	Pass
±2; 4kV	VCP	A	<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	Pass

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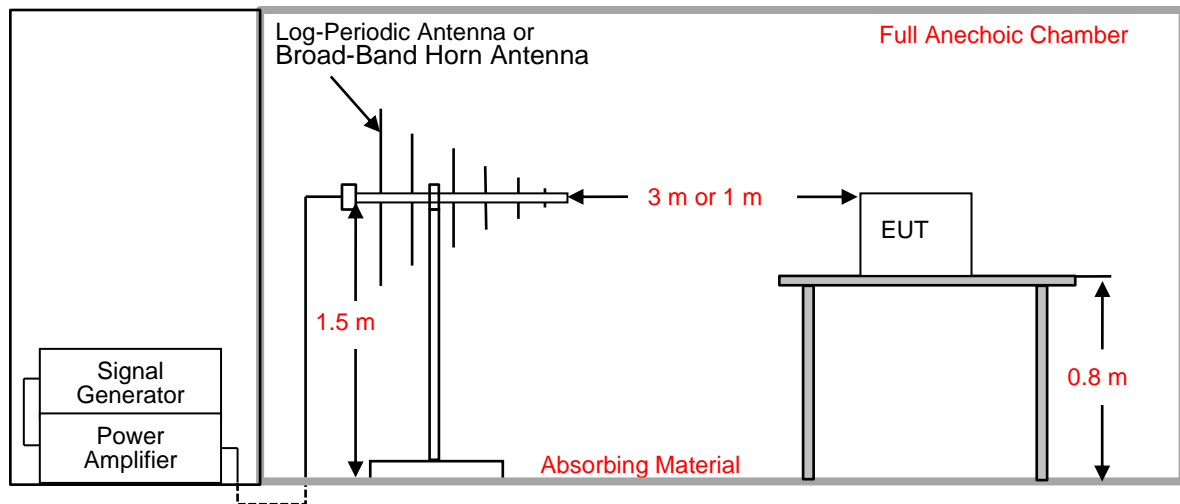
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8. RADIO FREQUENCY ELECTROMAGNETIC FIELDS IMMUNITY TEST

Test Specification

Test standard : EN IEC 55014-2
 Basic standard : IEC 61000-4-3
 Performance criterion : A
 Frequency range & : 80 MHz-1000 MHz 3V/m
 Test level : 80 MHz-6000 MHz 3V/m
 Modulation : AM, 80%, 1kHz sine-wave

Block Diagram of Test Setup



Test procedure

The procedure defined in this part requires the generation of electromagnetic fields within which the test sample is placed and its operation observed. To generate fields that are useful for simulation of actual (field) conditions may require significant antenna drive power and the resultant high field strength levels. To comply with local regulations and to prevent biological hazards to the testing personnel, it is recommended that these tests be carried out in a shielded enclosure or semi-anechoic chamber.

- The antenna which is enabling the complete frequency range of 80-1000 MHz is placed 3m (or 1m) away from the equipment. The required field strength is determined by placing the field strength meter(s) on top of or directly alongside the equipment under test and monitoring the field strength meter via a remote field strength indicator outside the enclosure while adjusting the continuous-wave to the antenna.
- The test is performed with the antenna facing the front and back sides of the EUT with. Both vertical and horizontal polarizations from antenna are tested.

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Test results

Pass.

Temperature : 23 °C
Humidity : 47 %
Atmospheric Pressure : 101kpa
Test Date : 2022-06-17

80 M-1000 MHz:

Freq. Range (MHz)	Field	Modulation	Polarity	Position (°)	Actual criterion	Required performance criterion	Result
80-1000	3V/m	AM, 80%	H / V	0, 90,180, 270	A	A	Pass

80 M-6000 MHz:

Freq. Range (MHz)	Field	Modulation	Polarity	Position (°)	Actual criterion	Required performance criterion	Result
80-6000	3V/m	AM, 80%	H / V	0, 90,180, 270	N/A	A	N/A

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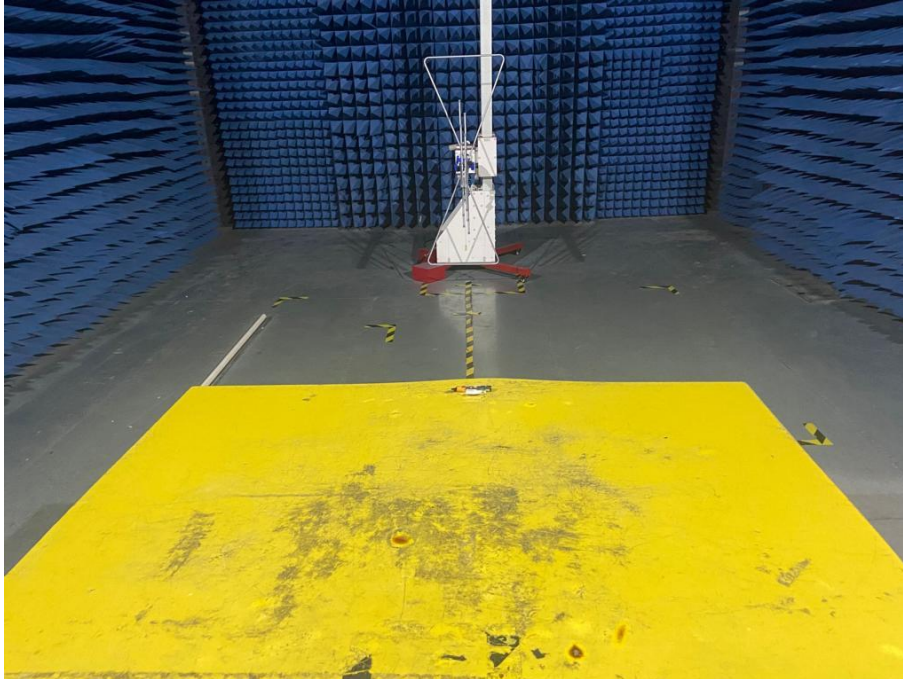
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9. PHOTOGRAPH OF TEST

Photo of Radiated Emission Measurement



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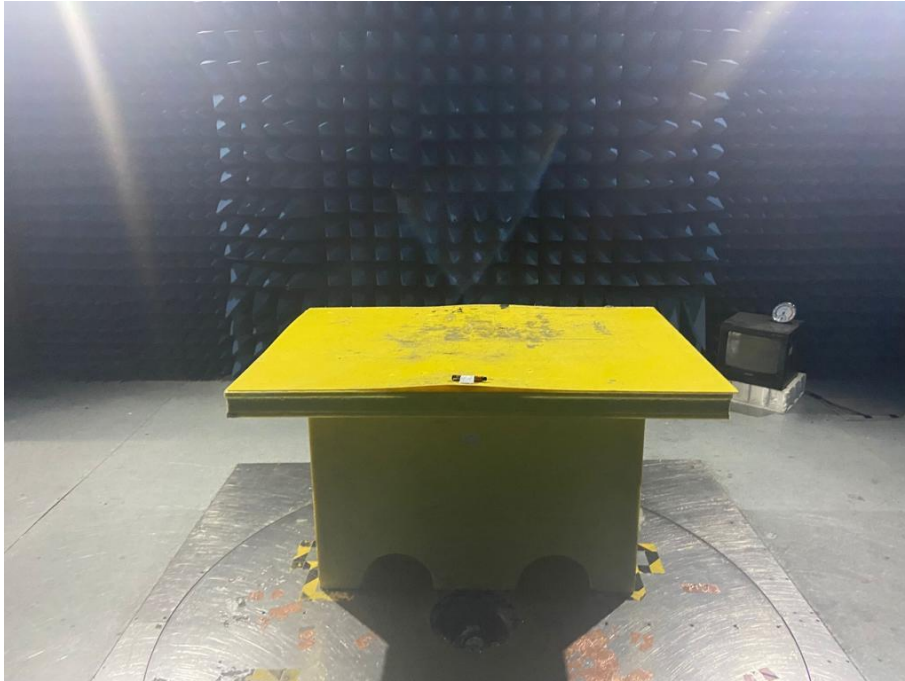


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Photo of Electrostatic Discharge Immunity Test



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UL VS Shanghai Limited

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ADF-001 (2018-09-18)



TEST REPORT

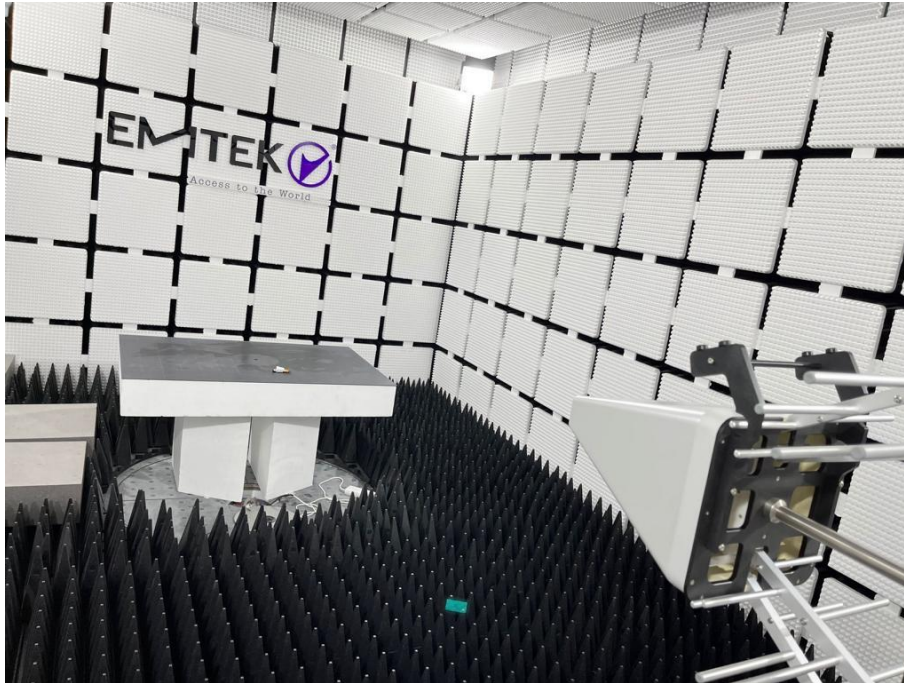
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Photo of Radio Frequency Electromagnetic Fields Immunity Test (Front)



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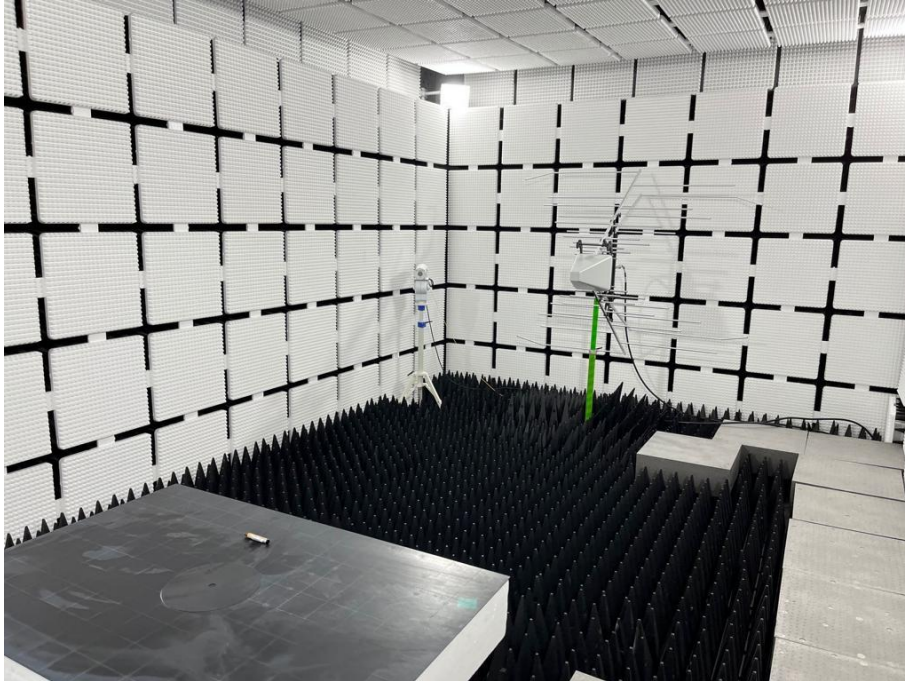
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Photo of Radio Frequency Electromagnetic Fields Immunity Test (Back)



APPENDIX I (Photos of EUT)

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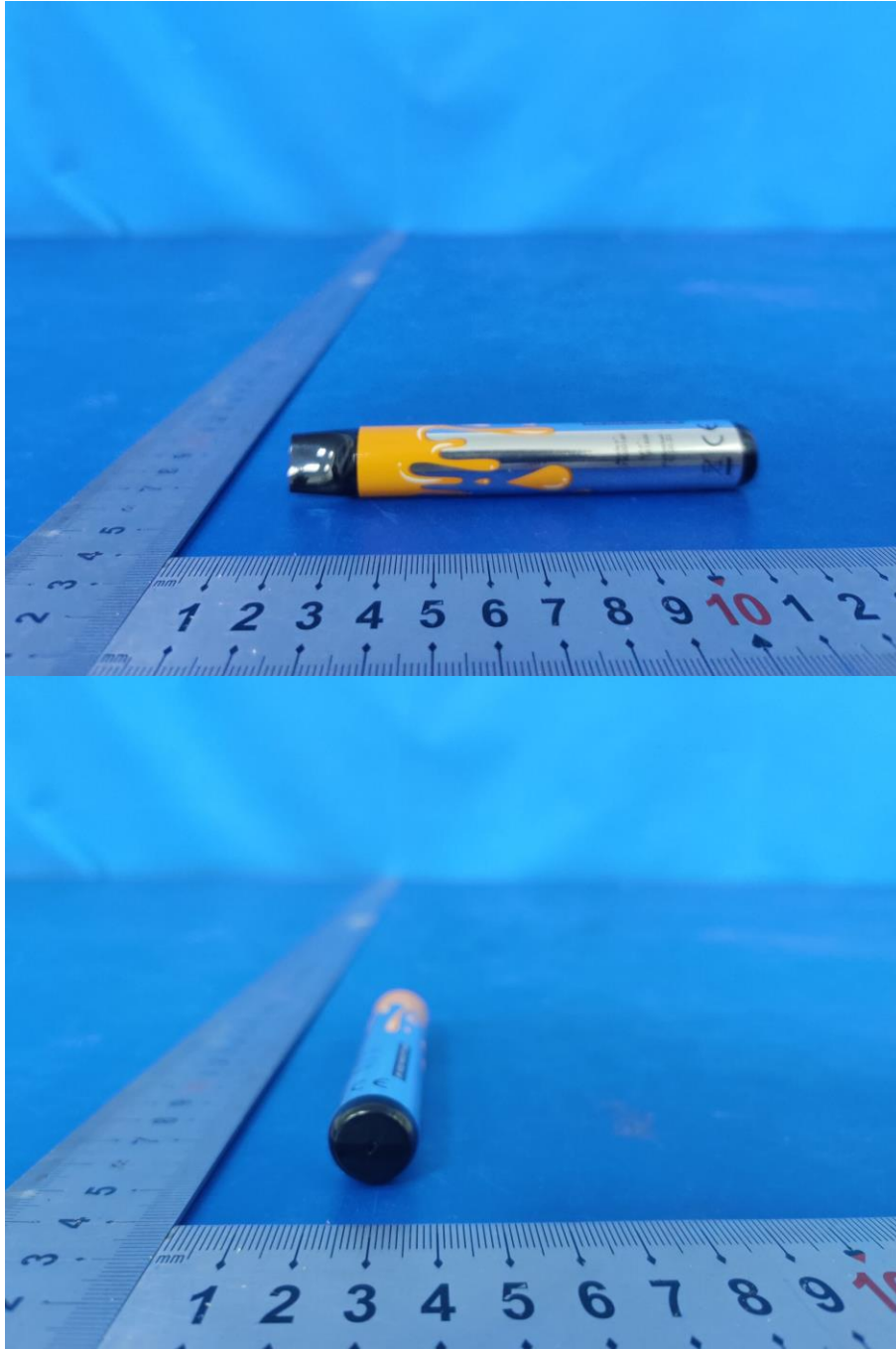
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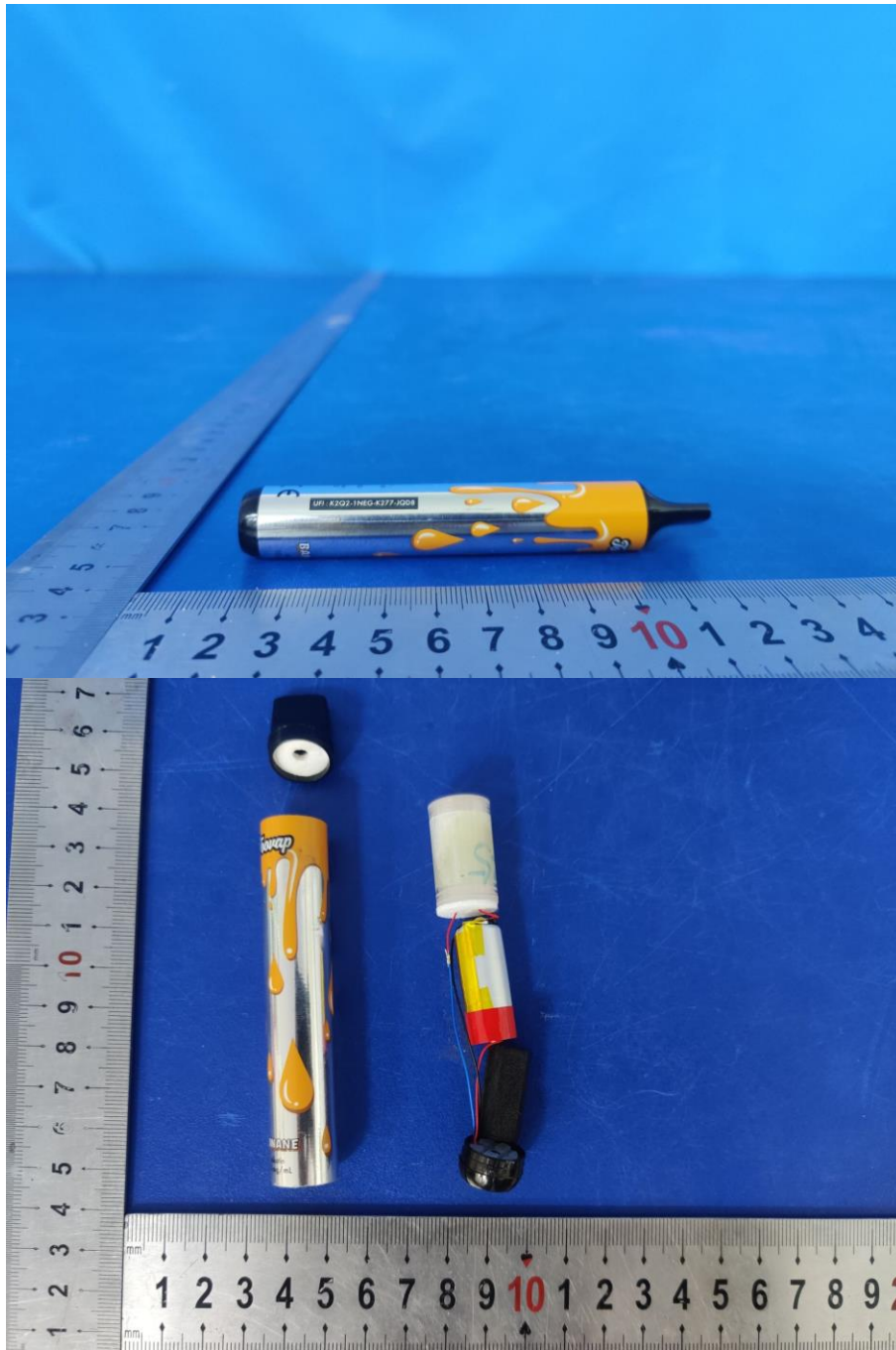
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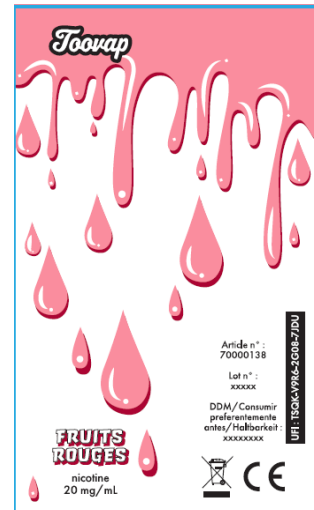


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All services are governed by the following Terms and Conditions.

- 1. Verification Services.** The UL Contracting Party ("we", "us", or "our" as the context requires) will perform commercial testing, verification, audit, assessment, inspection, and/or other services ("Services") in accordance with your instructions as described in this order, scope of work, project proposal, quotation, or order acknowledgment ("Quotation"). The Services will be limited to an assessment of your samples' conformity to requirements, specifications, and/or protocols you have established ("Your Requirements"), and do not express any opinion regarding the bulk from which the samples were drawn. The Services do not involve any assessment or evaluation to independent safety standards, and we and our affiliates have no responsibility to make any independent safety assessment of any samples.
- 2. Retailer Programs.** If you request us to test compliance with retailer, carrier or other third party program ("Retailer") by requesting Services under the Retailer's program, you consent to our disclosure of all associated information, materials, and deliverables to such Retailer and acknowledge that, notwithstanding any terms to the contrary in these Terms and Conditions, the ownership of the deliverables for the Services will be in accordance with the Retailer's program.
- 3. Payment Terms.** You will pay, without set off, our fees and related expenses in accordance with the Quotation including the cost of all taxes, wire or transfer fees, duties, and other fiscal charges which become due on the quoted price and will indemnify us from and against liabilities, incurred as a result of failure to pay any such sums when they become due. We may charge interest at 1% per month (12% per year), or the maximum legal rate if less than 1.0% per month, from the due date until paid fully. You agree to pay reasonable collection costs, including attorneys' fees, if necessary, in the event of late or non-payment.
- 4. Your Requirements.** You are responsible for establishing or selecting all Your Requirements that we will use in performing the Services. We may provide you with assistance in developing Your Requirements that meet your needs, however, in all cases you must review and approve Your Requirements to be used in performing the Services.
- 5. Estimated Schedule and Price.** Any time schedule and pricing terms set forth in this Quotation are estimates only and subject to change upon reasonable notice from us depending upon the specific project.
- 6. On-Site Investigations.** If we perform Services on site at your facilities, or at the facilities of other parties as directed by you; you will ensure that our representatives have safe, secure, and free access to the facilities. Our access will not be conditioned upon the execution of any agreement, waiver, or release. If our representatives are prevented from performing or completing any Services for any reason beyond our reasonable control, we will not be responsible for the nonperformance, and you may be charged for any actual expenses we incur and fees for Services performed.
- 7. Deliverables.** We will provide you with a report outlining: (i) your instructions and request for Services accepted by us, (ii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or report on any facts or circumstances which are outside your specific instructions received and accepted by us.
- 8. Our Findings.** We do not guarantee that our opinions or findings will be recognized or accepted by third parties.
- 9. Use of Names and Marks.** Except as otherwise authorized by us in writing, you will not use our name, abbreviation, symbols, marks, or the name of any of our subsidiaries, affiliates, or parent on any goods or their containers or packaging, or in connection with any advertising, promotions, or otherwise.
- 10. Cancellation Fees.** If you cancel or change a Quotation: (i) for an inspection after 3:00 PM of the working day before the scheduled inspection date, we will charge you the Quotation price plus any travel costs incurred before the cancellation; (ii) for testing after we receive the sample(s) at the testing facility, we will charge you cancellation fees according to the amount of actual work performed with a minimum cancellation fee of \$100 USD; or (iii) for a scheduled audit date, you will be responsible for all incurred non-refundable travel costs associated with that audit. Any change or cancellation of an audit that occurs within 7 days of the scheduled audit will be charged a \$600 USD fee in addition to any incurred travel costs.
- 11. No Warranty.** NO REPRESENTATION, WARRANTY, OR GUARANTEE, EXPRESS OR IMPLIED, IS INCLUDED IN THESE TERMS AND CONDITIONS, OR IN ANY QUOTATION, REPORT, OR OTHER DOCUMENT PROVIDED UNDER THESE TERMS AND CONDITIONS INCLUDING, BUT NOT LIMITED TO: (i) ANY "IMPLIED WARRANTY OF MERCHANTABILITY" OR "FITNESS FOR A PARTICULAR PURPOSE", (ii) NON-INFRINGEMENT, AND (iii) THAT THE WEB SERVICES (AS DEFINED BELOW) WILL BE UNINTERRUPTED, TIMELY, SECURE, OR ERROR-FREE.
- 12. Your Information.** You represent and warrant that all information and data provided to us by you, or on your behalf, is complete and accurate and may be relied upon to provide Services. In addition, you represent and warrant that all of Your Information is owned or licensed by you, and does not infringe on the intellectual property rights of any third party. If any information or data provided to us by you or on your behalf is either incomplete or inaccurate, we will not be liable in any manner for any deficiencies in the Services.
- 13. Ownership of Work Product.** You will own the test reports or other materials provided to you pursuant to any Quotation. We may retain a copy of the test reports and other materials for our archives and for creating reports for you and third parties, as required by you.
- 14. Web Services.** We may provide you with certain website tools and related services, including the ability to order services online through a website (collectively, the "Web Services"). The Web Services are provided to you as a convenience and are provided on an "as is, as available" basis. By using the Web Services, you acknowledge and agree that no data or content transmitted over our networks, the Internet, or wirelessly, or through or in connection with the Web Services, is guaranteed to be secure or free from unauthorized intrusion, and that data stored by us, our affiliates, or our service providers may be deleted, modified, or damaged. You acknowledge that if you wish to protect your transmission of data or files to us, it is your responsibility to use a secure encrypted connection to communicate with and use the Web Services. Your use of the Web Services is at your sole risk and is subject to any terms of use applicable to such Web Services. Web Services are included in the definition of Services above.
- 15. Confidentiality.** We will not disclose your information obtained in confidence ("Confidential Information") to third parties, except our subsidiaries, affiliates, or subcontractors, without your prior written authorization. Confidential Information will not include information: (a) already known to us, (b) publicly available, (c) subsequently acquired by us from other sources without a breach of these Terms and Conditions, (d) disclosure that is necessary to perform the Services, (e) required to be produced by law or government order, or accreditation authority, or (f) related to a product bearing a UL Mark that should be disclosed to us or our affiliates pursuant to another agreement with you.
- 16. Samples.** If we require sample examination, you will ship samples to us at your expense. Upon completion of testing, the samples will be destroyed, unless other arrangements are made for return of the samples at your expense. You acknowledge that testing and sample preparation may damage or destroy the sample(s), for which we will not be liable.
- 17. LIMITATION OF LIABILITY.** OUR LIABILITY FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE OF ANY NATURE AND HOWSOEVER ARISING FOR ANY BREACH OF CONTRACT AND/OR ANY FAILURE TO EXERCISE APPROPRIATE SKILL AND CARE BY US WILL UNDER NO CIRCUMSTANCE EXCEED THE FEES RECEIVED FOR THE SPECIFIC SERVICES WHICH GIVE RISE TO SUCH CLAIMS. UNDER NO CIRCUMSTANCE WILL WE HAVE ANY LIABILITY FOR ANY CLAIMS FOR INDIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO: LOSS OF PROFITS, GOODWILL, USE, DATA, FUTURE BUSINESS, OR PRODUCTION; CANCELLATION OF CONTRACTS ENTERED INTO BY YOU; OR OTHER INTANGIBLE LOSSES (EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES). UNDER NO CIRCUMSTANCE WILL WE BE LIABLE TO YOU FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE UNLESS SUCH CLAIM IS BROUGHT UNDER SECTION 25 (DISPUTES) WITHIN TWELVE MONTHS AFTER THE DATE OF THE PERFORMANCE BY US OF THE SERVICES WHICH GIVE RISE TO THE CLAIM OR, IN THE EVENT OF ANY ALLEGED NON-PERFORMANCE, WITHIN TWELVE MONTHS OF THE DATE WHEN SUCH SERVICES SHOULD HAVE BEEN COMPLETED.
- 18. Indemnification.** You will defend, hold harmless, and indemnify us and our officers, directors, trustees, employees, agents, or subcontractors against all claims made by any third party for loss, damage, or expense arising out of these Terms and Conditions, including without limitation, the performance or non-performance of any Services or the Web Services.
- 19. Waiver.** Any failure by a party to insist upon the performance of any section of these Terms and Conditions will not constitute a waiver of any rights under these Terms and Conditions or future performance of that section.
- 20. No Third Party Beneficiaries.** The parties intend that no provisions of these Terms and Conditions will in any way bind or benefit any third party or the public at large and that no third party will have any rights or cause of action under these Terms and Conditions. In particular, in the event Singapore law governs these Terms and Conditions pursuant to Section 24 (Governing Law), a person or entity who is not a party to these Terms and Conditions will have no right under the Contracts (Rights of Third Parties) Act (Chapter 53B) to enforce any term of these Terms and Conditions, regardless of whether such person or entity has been identified by name, as a member of a class, or as answering a particular description.
- 21. No Assignment.** Neither party may assign any of its rights or obligations under these Terms and Conditions to any other person without the other party's written authorization. However, we may, upon written notice, assign our rights and obligations under these Terms and Conditions to any of our affiliates or subsidiaries.
- 22. Subcontracting.** We may use subcontractors for certain testing or other Services. All subcontractors will meet our current qualification requirements and will comply with our requirements for confidentiality, conflicts of interest, and ethical standards.
- 23. Termination and Notice.** These Terms and Conditions will continue in effect until terminated by either party upon thirty days written notice or, in the event of your breach of these Terms and Conditions, immediately upon receipt of written notice to you. You will pay those fees and expenses incurred by us prior to termination. Notice to either party may be made by hand delivery, courier service, mail, facsimile, or e-mail transmission at the receiving party's designated principal place of business. Notice to us must be sent both to: UL Verification Services Pte. Ltd, Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253 with a copy to UL LLC, Attn.: General Counsel at 333 Pfingsten Road, Northbrook, Illinois 60062. Notice will be effective upon receipt.
- 24. Governing Law:** These Terms and Conditions will be governed and interpreted by the laws of the State of Illinois, United States of America, except if: (i) UL Contracting Party's principal place of business is Asia, Australia, or New Zealand, then Singapore law, and (ii) UL Contracting Party's principal place of business is Europe, then Swiss law, without reference to the applicable jurisdiction's choice of law principles.
- 25. Disputes.** Any dispute or disagreement, other than nonpayment of fees, relating to these Terms and Conditions or the Services, will be settled by confidential, binding arbitration administered by the International Centre for Dispute Resolution of the American Arbitration Association ("AAA") pursuant to the AAA Commercial Arbitration Rules and the Procedures for Large, Complex Commercial Disputes. The arbitration venue will be Chicago, Illinois, except if: (i) UL Contracting Party's principal place of business is in Europe, the venue will be Geneva, Switzerland, and (ii) UL Contracting Party's principal place of business is in Asia, Australia, or New Zealand, the venue will be Singapore, Republic of Singapore. The arbitration will be conducted before a panel of three (3) arbitrators. The arbitration panel will be selected as follows: the parties will request a list of ten (10) arbitrators drawn from the AAA's panel of commercial arbitrators (who are experienced in and familiar with the AAA's Procedures for Large, Complex Commercial Disputes). From this list, both parties will each choose one arbitrator. After they have been notified of their panel selection, the two (2) arbitrators will agree on a third arbitrator from the list of ten (10), who will be the chair of the panel, and the panel will be final. The decision of the majority of the arbitrators will be the panel's decision. The arbitrators will not have the authority to add, change, or disregard any term of these Terms and Conditions to award incidental, consequential, or punitive damages (including, but not limited to, loss of use, unjust enrichment, and/or lost profits), or exceed the remedies provided by the limitation of liability of these Terms and Conditions. The panel's decision will be binding and judgment on the arbitration award may be entered by a court of competent jurisdiction. Arbitration will be the final remedy for any dispute between the parties arising out of these Terms and Conditions, provided, however, that nothing herein will prevent either party from seeking a court order for injunctive relief (in addition to other remedies) to stop or prevent misuse or misappropriation of its marks, confidential or proprietary information, or infringement of its intellectual property, in a court of law. All arbitrations will be conducted in English.
- 26. Severability.** If any section of these Terms and Conditions is held invalid, void, or unenforceable for any reason that section will be severed, and all other sections of these Terms and Conditions will remain valid to the extent permissible under law.
- 27. Modifications.** These Terms and Conditions are the entire and complete agreement between the parties and supersede any other communications, representations, or agreements with respect to its subject matter. Under no circumstances will any preprinted, additional, or different terms and conditions on your requests for quotation, purchase orders, invoices, sales or marketing materials, emails, any acceptance communications, or other business documents apply to any Services or Quotation or bind us in any manner. Modifications that have not been made by us or that have not been accepted by us in a written or emailed confirmation from us are not accepted by us, and commencement of performance will not signify acceptance by us of any such modifications. Any such modifications are excluded from our agreement, and such modifications will not be a binding agreement on us.
- 28. Order of Precedence.** Except for conflicts with Section 3 (Payment Terms), Section 5 (Estimated Schedule and Price) and Section 10 (Cancellation Fees), these Terms and Conditions will take precedence over any conflicting terms in any Quotation.
- 29. Electronic Signature.** These Terms and Conditions may be executed and delivered by facsimile, PDF, or by means of other electronic signature. Our electronic, digital, or hard copies of these Terms and Conditions, your acceptance, and Quotations as signed, or otherwise accepted, by you will be the true, complete, valid, authentic, and enforceable copies of these documents. You agree that you will not contest the admissibility or enforceability of our copies in a court or any proceeding arising out of such documents.
- 30. Force Majeure.** Neither party will be liable for any failure or delay in the performance of its obligations due to fire, flood, earthquake, elements of nature, or acts of God, acts of war, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default or delay: (i) could not have been prevented by reasonable precautions; (ii) cannot reasonably be circumvented; (iii) and the party hindered or delayed immediately notifies the other party describing the circumstance causing delay.