

Supplementary Information for

ELECTRICAL FEATURES, LIQUID COMPOSITION AND TOXICANT EMISSIONS FROM 'POD-MOD'-LIKE DISPOSABLE ELECTRONIC CIGARETTES

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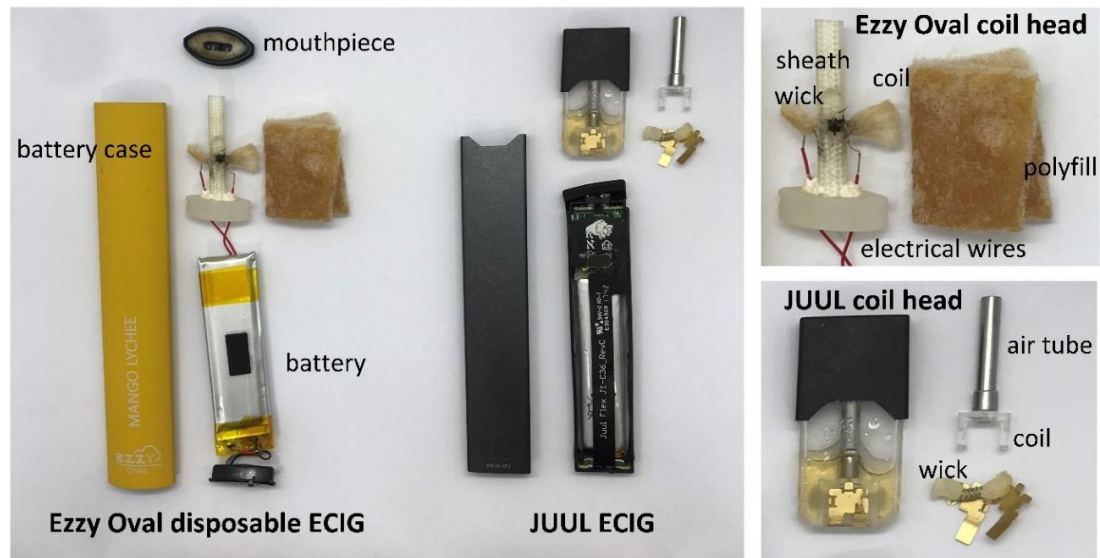


Figure S1. A disassembled used Ezyy Oval disposable product and a disassembled used JUUL device



Figure S2. Disassembled pod-mod-like disposable devices that were used in this study

Table S1. Metal emissions for five different disposable e-cigarette devices and one JUUL; average (SD). * indicates significant difference from JUUL. Data from other closed-system e-cigarettes were normalized on a 15 puff basis for comparison.

TYPE	POD-MOD-LIKE DISPOSABLES					POD-SYSTEM	OTHER CLOSED-SYSTEM E-CIGARETTES
Brand	Ezzy Oval		Hyde	Puff Bar	SEA	JUUL	
Flavor	Berry Cool	Mango Lychee	Cherry Lemonade	Banana ice	Mint	Classic Tobacco	
Metal emissions in 15 puffs (ng)							
Antimony	ND	ND	126(66)	410(146)*	ND	ND	
Chromium	222(64)	1205(1500)	127(83)	426(133)	151(114)	187(67)	10-304 [1, 2]
Iron	2394(2284)	3704(2664)	1450(438)	2312(2012)	874(1114)	819(585)	53-780 [1, 3]
Nickel	105(51)	171(47)	102(20)	312(83)*	75(14)	86(25)	7-29 [1, 3-5]
Copper	114(35)	236(94)	117(42)	532(150)	112(51)	351(222)	16-3370 [3-6]
Arsenic	ND	ND	ND	ND	ND	ND	17 [3]
Cadmium	ND	12(17)	ND	11(14)	ND	ND	15-22 [3, 5]
Tin	ND	ND	ND	72(47)	ND	ND	54-8250 [1, 2, 4, 5]
Manganese	70(49)	454(601)	155(69)	223(271)	143(129)	23(8)	3-52 [1, 3]
Strontium	23(21)	19(5)	14(6)	29(5)	19(11)	16(7)	9 [1]
Total metals	2139(2199)	5804(4815) ^a	2050(467)	4309(2606)	1084(1233)	1489(829)	

^a We note that the high values reported for the Ezzy Oval Mango Lychee result from very high metal emissions obtained from the first of the three samples that we generated using the same pod. This result may be due to metals leaching when the device was first operated suggesting poor QA.

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