



# Test Report

No.: ESTSZ141002205A

Date: Oct. 15, 2014

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## REPORT ON THE SUBMITTED SAMPLE SAID TO BE:

Sample Description : POWER BANK  
 Model No. (P.O No.) : CM03  
 Test Period : Oct. 10, 2014 to Oct. 15, 2014

Test Requested : As specified by client, to determine Polycyclic Aromatic Hydrocarbon (PAH) for compliance with ZEK 01.4-08 issued by Central Experience Exchange Office

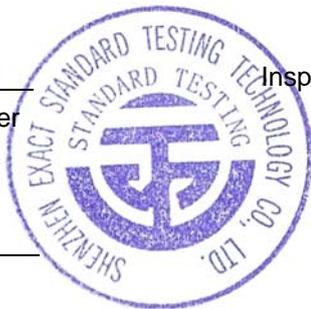
Test Method : : Please refer to next page

Test Results : : Please refer to next page

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*

Signed for and on behalf of  
SHENZHEN EXACT STANDARD TESTING TECHNOLOGY CO., LTD.

Compiled by Anna Zhu  
Anna Zhu / Project Engineer



Inspected by Sunny He  
Sunny He / Dept. Manager

Approved Charles Liu  
Charles Liu / Sr. Manager

**Test Results:**

Test Item(s)	Unit	Testing Method	Result		MDL
			No. A	No. B	
Naphthalene (NAP)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Acenaphthylene(ANY)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Acenaphthene (ANA)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Fluorine (FLU)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Phenanthrene (PHE)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Anthracene (ANT)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Fluoranthene (FLT)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Pyrene (PYR)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Benz(a)anthracene (BaA)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Chrysene (CHR)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Benzo(b)fluoranthene (BbF)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Benzo(k)fluoranthene (BkF)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Benzo(a)pyrene (BaP)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Indeno(1,2,3-cd)pyrene (IPY)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Dibenz(a,h)anthracene (DBA)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Benzo(g,h,i)perylene (BPE)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Benzo[j]fluoranthene (BjFA)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Benzo[e]pyrene (BeP)	mg/kg	ZEK 01.4-08, GC-MS	N.D.	N.D.	0.2
Sum of 18 PAHs acc. US EPA	mg/kg	---	N.D.	N.D.	---

**Test sample/ part description**

- A. Grey plastic w/ black printing (Enclosure)
- B. Black silicon cover

**Note:**

- mg/kg = ppm; 0.1wt% = 1000ppm
- N.D.=Not Detected (<MDL)
- MDL=Method Detection Limit





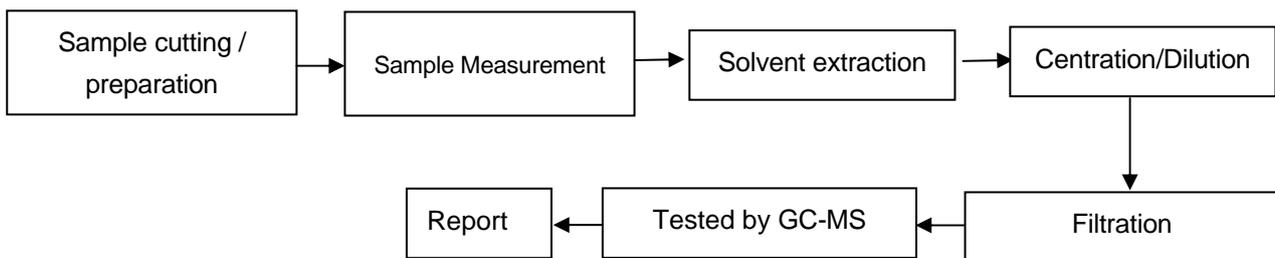
Requirement of ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Materials in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children < 36 months.	Materials with foreseeable skin contact >30s (prolonged skin contact) and toys not covered by category 1.	Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact.
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 18 EPA-PAH (mg/kg) *	<MDL (<0.2)**	10	200

Remark: \* = Only PAH substances > 0.2 mg/kg are taken into account while calculating the sum of PAHs

\*\* = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186,ff. and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

PAHs Testing Flow Chart:



DESCRIPTION OF PHOTO:



EST authenticate the photo on original report only

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