

Test Report

No.: 68.431.23.1331.01

Date: 2023-03-10



Greater China

Applicant: Spector & Co
Sample Description: WHEAT HUSK TWS WIRELESS EARBUDS
Product Type / End use: Technology
Item No.: EC149
Style No.: WHEAT RECYCLED
Supplier: USC056
Country of Origin: CHINA
Country of Destination: CANADA & U.S.A.
Receipt Date of Sample: 2023-02-24, 2023-03-06
Date of Testing: From 2023-02-24 to 2023-03-08
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials	Pass*
2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials	Pass*
3. US California Proposition 65 - Total lead Content Test - Paint and Similar Surface-Coating Materials	Pass*
4. US California Proposition 65 - Total Lead Content Test - Substrate Materials	Pass*
5. Phthalates Content (11P)	Pass*
6. Tungsten Content Test	Report As Is
7. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead	Pass
8. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
9. Total Nickel Content Test	Report As Is
10. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
11. US California Proposition 65 - Phthalates Content (6P)	Pass*
12. Canadian Products Containing Mercury Regulations SOR/2014-254 - Total Mercury Content Test	Pass
13. Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)	Pass*

Remarks: 1. MDL = Method Detection Limit
2. N.D. = Not Detected (<MDL)
3. ≤ Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. NA=Not Applicable

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Lab 2 - Physical & Mechanical Test: Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

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Testing Center

Prepared by:

Authorized by:



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Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.
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For further details, please see "Testing and certification regulation", chapter A-3.4
For full version, please visit: EN : <https://www.tuvsud.cn/zh-cn/resource/terms-and-conditions---en> ; SCN: <https://www.tuvsud.cn/zh-cn/terms-and-conditions> ; TCN: <https://www.tuvsud.com/zh-tw/terms-and-conditions>
- (2) The results relate only to the items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
- "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
- "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.
- (5) The test items and samples were specified by the client.
- (6) "***" denotes the conclusion was drawn according to the client's specification.

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Description of Tested Subject:

Sample	Description	Photo
A	Whole product	
001	Cream and grey plastic earbuds case	
002	Grey plastic earbuds case and earbuds	
003	Cream coating on earbuds case (Letters)	
004	Grey plastic with cream coating of earbuds case	

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Sample	Description	Photo
005	Golden metal contact dot of earbuds case	
006	Gun-metal metal mesh of earbuds	
007	Black soft plastic plug	
008	Black soft plastic wire cable of USB (Surfacing)	
009	White plastic pin of USB plug	
010	Silvery metal pin of USB plug	
011	Black plastic pin of small plug	
012	Silvery metal pin of small plug	

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Sample	Description	Photo
013	Silvery metal contact clip of small plug	
014	White plastic sticker with transparent plastic film and multi-color printing	
015	Red soft plastic wire cable of USB	

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Sample	Description	Photo
019	Green plastic PCB with green and white printing of speaker	

T. No	Sample	Description
T1	001	Cream and grey plastic earbuds case
T2	002	Grey plastic earbuds case and earbuds
T3	003	Cream coating on earbuds case (Letters)
T4	004	Grey plastic with cream coating of earbuds case
T5	005	Golden metal contact dot of earbuds case
T6	006	Gun-metal metal mesh of earbuds
T7	007	Black soft plastic plug
T8	008	Black soft plastic wire cable of USB (Surfacing)
T9	009	White plastic pin of USB plug
T10	010	Silvery metal pin of USB plug
T11	011	Black plastic pin of small plug
T12	012	Silvery metal pin of small plug
T13	013	Silvery metal contact clip of small plug
T14	014	White plastic sticker with transparent plastic film and multi-color printing
T15	015	Red soft plastic wire cable of USB
T16	019	Green plastic PCB with green and white printing of speaker

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Test Result(s):

1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
003	mg/kg	10.0	75	N.D.	Pass

2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001+002	mg/kg	10.0	75	N.D.	Pass
005	mg/kg	10.0	75	N.D.	Pass
006	mg/kg	10.0	75	N.D.	Pass
007+008+009	mg/kg	10.0	75	N.D.	Pass
010	mg/kg	10.0	75	N.D.	Pass
011+014	mg/kg	10.0	75	N.D.	Pass
012	mg/kg	10.0	75	N.D.	Pass
013	mg/kg	10.0	75	N.D.	Pass

3. US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
003	mg/kg	10.0	90	N.D.	Pass

4. US California Proposition 65 - Total Lead Content Test - Substrate Materials

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001+002	mg/kg	10.0	100	N.D.	Pass
005	mg/kg	10.0	100	62.0	Pass
006	mg/kg	10.0	100	N.D.	Pass
007+008+009	mg/kg	10.0	100	N.D.	Pass
010	mg/kg	10.0	100	N.D.	Pass
011+014	mg/kg	10.0	100	N.D.	Pass
012	mg/kg	10.0	100	N.D.	Pass
013	mg/kg	10.0	100	N.D.	Pass

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5. Phthalates Content (11P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					001+002	003
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					007+008+009	011+014
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.

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Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

6. Tungsten Content Test

Test with reference to acid digestion and determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test items	Unit	MDL	Maximum Permissible Limit	Result(s)	
				010	
Tungsten(W)	mg/kg	10.0	-	N.D.	
Conclusion				Report As Is	

7. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
003	mg/kg	10.0	90	N.D.	Pass

8. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002	mg/kg	10.0	90	N.D.	Pass
003	mg/kg	10.0	90	N.D.	Pass
005	mg/kg	10.0	90	62.0	Pass
006	mg/kg	10.0	90	N.D.	Pass
007+008+009	mg/kg	10.0	90	N.D.	Pass
010	mg/kg	10.0	90	N.D.	Pass
011+014	mg/kg	10.0	90	N.D.	Pass
012	mg/kg	10.0	90	N.D.	Pass
013	mg/kg	10.0	90	N.D.	Pass

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9. Total Nickel Content Test

Test with reference to acid digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
005	mg/kg	5.0	-	20505.478	Report As Is
006	mg/kg	5.0	-	71753.876	Report As Is
010	mg/kg	5.0	-	9625.310	Report As Is
012	mg/kg	5.0	-	11220.297	Report As Is
013	mg/kg	5.0	-	10560.000	Report As Is

10. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001+002	003
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					007+008+009	011+014
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.

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Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

11. US California Proposition 65 - Phthalates Content (6P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					001+002	003
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					007+008+009	011+014
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
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Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

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12. Canadian Products Containing Mercury Regulations SOR/2014-254 - Total Mercury Content Test

Test with reference to EN 62321-4:2014+A1:2017, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002	mg/kg	10.0	1000	N.D.	Pass
003	mg/kg	10.0	1000	N.D.	Pass
005	mg/kg	10.0	1000	N.D.	Pass
006	mg/kg	10.0	1000	N.D.	Pass
007+008+009	mg/kg	10.0	1000	N.D.	Pass
010	mg/kg	10.0	1000	N.D.	Pass
011+014	mg/kg	10.0	1000	N.D.	Pass
012	mg/kg	10.0	1000	N.D.	Pass
013	mg/kg	10.0	1000	N.D.	Pass

13. Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

Test with reference to in- house method, determination by LC-MS/LC-MC-MS.

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					004	008
Perfluorooctanesulphonic acid 1H,1H,2H,2H (H4PFOS; 6:2)	27619-97-2	mg/kg	0.025	0.025	ND	ND
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.025	0.025	ND	ND
Ammonium Pentadecafluorooctanoate (APFO)*	3825-26-1	mg/kg	0.025	0.025	ND	ND
Sodium perfluorooctanoate(Na-PFO)*	335-95-5	mg/kg	0.025	0.025	ND	ND
Potassium perfluorooctanoate(K-PFO)*	2395-00-8	mg/kg	0.025	0.025	ND	ND
Silver perfluorooctanoate(Ag-PFO)*	335-93-3	mg/kg	0.025	0.025	ND	ND
Perfluorooctanoyl fluoride(F-PFO)*	335-66-0	mg/kg	0.025	0.025	ND	ND
Perfluorooctansulfonate (PFOS)	1763-23-1	mg/kg	0.025	0.025	ND	ND
Perfluorooctane sulphonamide(PFOSA)	754-91-6	mg/kg	0.025	0.025	ND	ND
perfluoro-1-octanesulfonyl fluoride (POSF/PFOSF)*	307-35-7	mg/kg	0.025	0.025	ND	ND
Potassium perfluorooctanesulphonate(PFOS-K)*	2795-39-3	mg/kg	0.025	0.025	ND	ND
Ammonium perfluorooctanesulphonate(PFOS-NH4)*	29081-56-9	mg/kg	0.025	0.025	ND	ND
Didecyl(dimethyl)azanium;1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate(PFOS-DDA)*	251099-16-8	mg/kg	0.025	0.025	ND	ND
Perfluoro-1-octanesulfonic acid, diethanolamine salt(PFOS-NH(OH)2)*	70225-14-8	mg/kg	0.025	0.025	ND	ND
Lithium perfluorooctylsulfonate(PFOS-Li)*	29457-72-5	mg/kg	0.025	0.025	ND	ND
Heptafluorooctanesulfonic acid tetraethylammonium salt(PFOS-N(C2H5)4)*	56773-42-3	mg/kg	0.025	0.025	ND	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.5	0.5	ND	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.5	0.5	ND	ND
Sodium Perfluoro-1-octanesulfonate(PFOS-Na)*	4021-47-0	mg/kg	0.025	0.025	ND	ND
Conclusion					Pass	Pass

Regd. Office:

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Test Report

No.: 68.431.23.1331.01

Date: 2023-03-10



Greater China

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					015	019
Perfluorooctanesulphonic acid 1H,1H,2H,2H (H4PFOS; 6:2)	27619-97-2	mg/kg	0.025	0.025	ND	ND
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.025	0.025	ND	ND
Ammonium Pentadecafluorooctanoate (APFO)*	3825-26-1	mg/kg	0.025	0.025	ND	ND
Sodium perfluorooctanoate(Na-PFO)*	335-95-5	mg/kg	0.025	0.025	ND	ND
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Sodium Perfluoro-1-octanesulfonate(PFOS-Na)*	4021-47-0	mg/kg	0.025	0.025	ND	ND
Conclusion					Pass	Pass

Remark: * The test result is based on the calculation of selected marker(s) and to the worst-case scenario.

-End of Test Report-

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