

# Test Report

No.: 68.431.23.1332.02

Date: 2023-03-28



Greater China

**Applicant:** Spector & Co  
**Product Name:** Plastic 2in1 wireless speaker/charging dock  
**End Use:** Technology  
**Item No.:** T252  
**Style No.:** MIAMI  
**Supplier:** USC056  
**Country of Origin:** CHINA  
**Country of Destination:** CANADA & U.S.A.  
**Receipt Date of Sample:** 2023-02-21, 2023-03-06, 2023-03-17  
**Date of Testing:** From 2023-02-21 to 2023-03-22  
**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. Canadian Products Containing Mercury Regulations SOR/2014-254 - Total Mercury Content Test	Pass
8. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead	Pass
9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
10. Total Nickel Content Test	Report As Is
11. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
12. US California Proposition 65 - Phthalates Content (6P)	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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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Testing Center

Prepared by:

Authorized by:



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**Note:**

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- (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	Black plastic hull of speaker	
002	Grey coating on hull of speaker Submitted on 2023-03-17	
003	Black plastic with grey coating on hull of speaker	
004	Black soft plastic ring and non-slip mat of speaker	
005	White soft plastic ring of speaker	
006	Red soft plastic ring of speaker	
007	Orange soft plastic ring of speaker	

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Sample	Description	Photo
008	Black soft plastic ring of speaker	
009	Black soft plastic plug	
010	Black soft plastic wire cable of USB (Surfacing)	
011	White plastic pin of USB plug	
012	Silvery metal hull of USB plug	
013	Black plastic pin of small plug	
014	Silvery metal hull of small plug	
015	Silvery metal contact clip of small plug	

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Sample	Description	Photo
016	White plastic sticker with transparent plastic film and multi-color printing	
017	Red soft plastic wire cable of USB	
018	White soft plastic wire cable of USB	

T. No	Sample	Description
T1	001	Black plastic hull of speaker
T2	002	Grey coating on hull of speaker
T3	003	Black plastic with grey coating on hull of speaker
T4	004	Black soft plastic ring and non-slip mat of speaker
T5	005	White soft plastic ring of speaker
T6	006	Red soft plastic ring of speaker
T7	007	Orange soft plastic ring of speaker
T8	008	Black soft plastic ring of speaker
T9	009	Black soft plastic plug
T10	010	Black soft plastic wire cable of USB (Surfacing)
T11	011	White plastic pin of USB plug
T12	012	Silvery metal hull of USB plug
T13	013	Black plastic pin of small plug
T14	014	Silvery metal hull of small plug
T15	015	Silvery metal contact clip of small plug
T16	016	White plastic sticker with transparent plastic film and multi-color printing
T17	017	Red soft plastic wire cable of USB
T18	018	White soft plastic wire cable of USB

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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
002	mg/kg	10	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+004+005	mg/kg	10	75	N.D.	Pass
006+007+008	mg/kg	10	75	N.D.	Pass
009+010+011	mg/kg	10	75	N.D.	Pass
012	mg/kg	10	75	N.D.	Pass
013+016	mg/kg	10	75	N.D.	Pass
014	mg/kg	10	75	N.D.	Pass
015	mg/kg	10	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
002	mg/kg	10	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+004+005	mg/kg	10	100	N.D.	Pass
006+007+008	mg/kg	10	100	N.D.	Pass
009+010+011	mg/kg	10	100	N.D.	Pass
012	mg/kg	10	100	N.D.	Pass
013+016	mg/kg	10	100	N.D.	Pass
014	mg/kg	10	100	N.D.	Pass
015	mg/kg	10	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+004+005	002
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.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					006+007+008	009+010+011
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.
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Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate,	26761-40-0 ,	%	0.005	0.1	N.D.	N.D.

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(DIDP)	68515-49-1					
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)
					013+016
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.
<b>Conclusion</b>					<b>Pass</b>

## 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)
				012
Tungsten(W)	mg/kg	10.0	-	N.D.
<b>Conclusion</b>				<b>Report As Is</b>

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7. **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+004+005	mg/kg	10	1000	N.D.	Pass
002	mg/kg	10	1000	N.D.	Pass
006+007+008	mg/kg	10	1000	N.D.	Pass
009+010+011	mg/kg	10	1000	N.D.	Pass
012	mg/kg	10	1000	N.D.	Pass
013+016	mg/kg	10	1000	N.D.	Pass
014	mg/kg	10	1000	N.D.	Pass
015	mg/kg	10	1000	N.D.	Pass

8. **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
002	mg/kg	10	90	N.D.	Pass

9. **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+004+005	mg/kg	10	90	N.D.	Pass
002	mg/kg	10	90	N.D.	Pass
006+007+008	mg/kg	10	90	N.D.	Pass
009+010+011	mg/kg	10	90	N.D.	Pass
012	mg/kg	10	90	N.D.	Pass
013+016	mg/kg	10	90	N.D.	Pass
014	mg/kg	10	90	N.D.	Pass
015	mg/kg	10	90	N.D.	Pass

10. **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
012	mg/kg	5	-	9625.310	Report As Is
014	mg/kg	5	-	11220.297	Report As Is
015	mg/kg	5	-	10560.000	Report As Is

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11. 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+004+005	002
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.
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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.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006+007+008	009+010+011
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.
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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.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					013+016
Benzyl butyl phthalate,	85-68-7	%	0.005	0.1	N.D.

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(BBP)					
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Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.
<b>Conclusion</b>					<b>Pass</b>

## 12. 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+004+005	002
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.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					006+007+008	009+010+011
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	84-75-3	%	0.005	0.1	N.D.	N.D.

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(DNHP)						
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					013+016	
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	
<b>Conclusion</b>					<b>Pass</b>	

### 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)	
					003	010
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	56773-42-3	mg/kg	0.025	0.025	ND	ND

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salt(PFOS-N(C2H5)4)*						
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
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					017	018
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 perfluorooctanesulfonate(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-heptadecafluorooctane-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
Heptadecafluorooctanesulfonic 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
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

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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